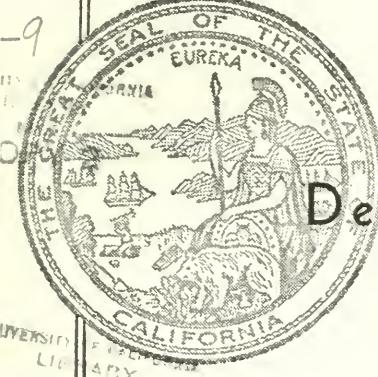


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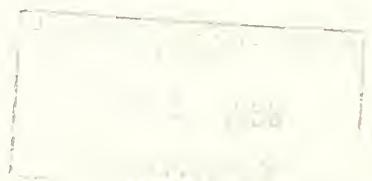
BULLETIN No. 91-9

DATA ON WATER WELLS  
IN INDIAN WELLS VALLEY AREA  
INYO, KERN AND SAN BERNARDINO  
COUNTIES, CALIFORNIA

*Prepared by*  
UNITED STATES DEPARTMENT OF INTERIOR  
GEOLOGICAL SURVEY

FEDERAL-STATE COOPERATIVE GROUND WATER INVESTIGATIONS

MAY 1963



HUGO FISHER

Administrator

The Resources Agency of California

EDMUND G. BROWN

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State of California

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State of California  
THE RESOURCES AGENCY OF CALIFORNIA  
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This report is one of a series of open file reports prepared by the United States Department of Interior Geological Survey, Ground Water Branch, which presents basic data on wells obtained from reconnaissance surveys of desert areas. These investigations are conducted by the Geological Survey under a cooperative agreement whereby funds are furnished equally by the United States and the State of California. The reports in this Bulletin No. 91 series are being published by the Department of Water Resources in order to make sufficient copies available for use of all interested agencies and the public at large. Earlier reports of this series are:

**Bulletin No. 91-1**

Data on Wells in the West Part of the Middle Mojave Valley Area,  
San Bernardino County, California

**Bulletin No. 91-2**

Data on Water Wells and Springs in the Yucca Valley-Twentynine Palms Area,  
San Bernardino and Riverside Counties, California

**Bulletin No. 91-3**

Data on Water Wells in the Eastern Part of the Middle Mojave Valley Area,  
San Bernardino County, California

**Bulletin No. 91-4**

Data on Water Wells in the Willow Springs, Gloster, and Chaffee Areas,  
Kern County, California

**Bulletin No. 91-5**

Data on Water Wells in the Dale Valley Area, San Bernardino and  
Riverside Counties, California

**Bulletin No. 91-6**

Data on Wells in the Edwards Air Force Base Area, California

**Bulletin No. 91-7**

Data on Water Wells and Springs in the Chuckwalla Valley Area,  
Riverside County, California

**Bulletin No. 91-8**

Data on Water Wells and Springs in the Rice and Vidal Valley Areas,  
Riverside and San Bernardino Counties, California

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Water Resources Division  
Ground Water Branch  
Sacramento 14, California

January 14, 1963

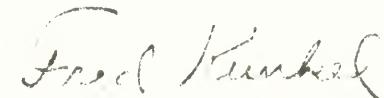
Mr. William E. Warne, Director  
California Department of Water Resources  
P. O. Box 388  
Sacramento 2, California

Dear Mr. Warne:

We are pleased to transmit herewith, for publication by the Department of Water Resources, the U.S. Geological Survey report, "Data on Water Wells in Indian Wells Valley Area, Inyo, Kern, and San Bernardino Counties, California," by W. R. Moyle, Jr.

This report, one of a series for the Mojave Desert region, was prepared by the Long Beach subdistrict office of the Geological Survey in accordance with the cooperative agreement between the State of California and the Geological Survey. The report tabulates all available data on wells in Indian Wells Valley and shows reconnaissance geology with special reference to the water-yielding deposits.

Sincerely yours,



Fred Kunkel  
District Geologist



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DATA ON WATER WELLS IN INDIAN WELLS VALLEY AREA, INYO, KERN,  
AND SAN BERNARDINO COUNTIES, CALIFORNIA

---

By W. R. Moyle, Jr.

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PURPOSE AND SCOPE OF THE WORK AND REPORT

The data presented in this report were collected by the U.S. Geological Survey as a phase of its investigation of water wells and general hydrologic conditions throughout much of the desert region of southern California. This study was made in cooperation with the U.S. Naval Ordnance Test Station at China Lake, Calif., and with the California Department of Water Resources.

The general objective of the cooperative investigation is to collect and tabulate all available hydrologic data for the desert basins in order to provide public agencies and the general public with data for use in planning water utilization and development work and for use in subsequent ground-water investigations.

Accordingly, the scope of the work carried out by the Geological Survey in each area has included: (1) Visiting and examining most of the water wells in the area, determining and recording their locations in relation to geographic and cultural features and the public-land net, and recording well depths and sizes, types and capacities of pumping equipment, uses of the water, and other pertinent information; (2) measurements of the depth to the water surface below an established and described measuring point at or near the land surface; (3) selection of representative wells to be measured periodically in order to detect and record changes of water levels; and (4) collection and tabulation of well records, including well logs, water-level measurements, and chemical analyses.

The work has been carried on by the U.S. Department of the Interior, Geological Survey, under the general supervision of H. D. Wilson, Jr., district engineer in charge of ground-water investigations in California, and under the direction of Fred Kunkel, geologist in charge of the Long Beach subdistrict office. The field-work was carried on and described by the authors of the following reports: Fred Kunkel, G. H. Chase, and W. J. Hiltgen (1954); and W. R. Moyle, Jr., and Fred Kunkel (1960). In addition, unpublished data from fieldwork done by M. A. Pistrang are included.

## LOCATION AND GENERAL FEATURES OF THE AREA

The Indian Wells Valley area, as described in this report (fig. 1), covers approximately 1,500 square miles and in general includes parts of the Sierra Nevada, Coso Range, El Paso Mountains, Spangler Hills, and Argus Range. The principal communities in the area are China Lake, Ridgecrest, Inyokern, Little Lake, and Searles.

The area is in the northern part of the Mojave Desert region between lat  $35^{\circ}15'$  and  $36^{\circ}00'$  N. and long  $117^{\circ}25'$  and  $118^{\circ}15'$  W. The southern boundary coincides with the northern boundary of the Fremont Valley area after L. C. Dutcher (1959). The western boundary lies along the crest of the Sierra Nevada. The northern boundary coincides with the northern edge of the Little Lake and Mountain Springs quadrangles. The eastern boundary is approximately the crest of the Argus Range.

The area is shown on all or parts of the following U.S. Geological Survey topographic quadrangle maps at a scale of 1:62,500: Little Lake, Mountain Springs, Onyx, Ridgecrest, Inyokern, Searles Lake, Randsburg, Cross Mountain, and Saltdale; and the Trona sheet at a scale of 1:250,000. Access to the area is provided by U.S. Highways 395 and 6 and numerous other paved and unpaved roads.

Geographically, the area is one of interior drainage with no perennial streams. The principal landforms are broad alluvial fans and alluvial plains built out from the surrounding mountains. In general, the mountain areas are composed of granitic, metamorphic, sedimentary, and volcanic rocks which are of little importance with respect to the yield of water to wells in these areas, except insofar as they underlie a large part of the catchment area of the watershed.

Broad alluvial fans and alluvial plains extend into the area from the northern slopes of the El Paso Mountains, the eastern slopes of the Sierra Nevada, the southern slopes of the Coso Range, and the western slopes of the Argus Range. The lowest parts of the area are occupied by playa lakes which usually are dry, except during and after infrequent periods of heavy precipitation.

#### PREVIOUS WORK AND ACKNOWLEDGMENTS

Data on ground water in Indian Wells Valley area are contained in reports by C. H. Lee (1913), J. T. Whistler (1923), D. G. Thompson (1929), Wilcox, Hatcher, and Blair (1951), and Kunkel, Chase, and Hiltgen (1954).

The geology shown on figure 2 is by W. R. Moyle, Jr., and is generalized largely after published mapping of the Saltdale quadrangle by T. W. Dibblee, Jr. (1952); after unpublished mapping by T. W. Dibblee, Jr., for the Randsburg, Inyokern, and Cross Mountain quadrangles; after unpublished mapping by Fred Kunkel and G. H. Chase for the Inyokern, Ridgecrest, Mountain Springs Canyon, and Little Lake quadrangles; and after unpublished mapping by Roland E. von Huene for the mountainous areas on the Mountain Springs Canyon and Ridgecrest quadrangles.

The cooperation and assistance given by the many ranchers, well owners, drillers, and public agencies contributed materially to the completeness of this report and are most gratefully acknowledged.

## GEOLOGIC AND HYDROLOGIC FEATURES OF THE AREA

The geologic units in Indian Wells Valley area can be grouped into two broad categories (fig. 2). They are, first, the crystalline rocks of the basement complex and, second, the sedimentary and volcanic rocks.

The basement complex includes undifferentiated plutonic, hypabyssal, and metamorphic rocks of pre-Tertiary age. For the most part, the basement-complex rocks are impervious and, except for minor amounts of water in fractures or weathered zones, yield little or no water to wells.

The volcanic rocks include basalt, tuff, pumice, andesite, rhyolite, and dacite of Tertiary and Quaternary age that occur in the mountains to the north, east, and south of Indian Wells Valley. Like the rocks of the basement complex, the volcanic rocks are impervious and yield little water to wells.

The sedimentary rocks include alluvium, fan deposits, lake deposits, windblown sand, and landslide debris of Tertiary and Quaternary age. Some of the older more compacted formations of Tertiary age yield little water or water of poor quality, but some of the unconsolidated sedimentary deposits of Pleistocene age yield water readily and comprise the main water-bearing units in the area.

The Goler Formation of Dibblee (1952), of Tertiary age, is highly compacted arkose, clay, shale, and conglomerate which yields very little water to wells. The Goler Formation generally is impervious and ground water travels along the contact between the Goler Formation and the younger sedimentary deposits above.

The Ricardo Formation (Bibblee, 1952), of Tertiary age, consists of silt, sand, gravel, clay, limestone, opal-chert, conglomerate, tuff, basalt flows, andesite breccia flows, and granitic cobbles. In general, these rocks are poorly permeable and yield only small amounts of poor-quality water to wells.

The basalt, of Tertiary age, in part overlies and in part intrudes the Ricardo Formation. This unit is not considered to be water bearing in the mapped area.

The volcanic and sedimentary rocks of Tertiary age in the Lava Mountains include andesite, undifferentiated volcanic rocks, and sedimentary rocks. The andesite, of middle and(or) late Pliocene(?) age, is composed of extrusive masses of brown to red andesite porphyry. The undifferentiated volcanic rocks, of middle and(or) late Pliocene(?) are, is composed of yellow-gray volcanic sandstone and conglomerate, white to tan tuff and tuff breccia, brown andesite breccia, and purple to brown andesite porphyry. The sedimentary rocks, of middle Pliocene age, are composed of white tuff and tuff-breccia, tan to red arkosic sandstone, conglomerate, siltstone, and tan rhyolitic fanglomerate. Old mine shafts dug to depths of several hundred feet in the volcanic rock yield very small amounts of water. These shafts have been used as wells. Small amounts of water are sometimes obtained from shallow dug wells that collect water from the interface between the hard sandstone or volcanic rocks and the overlying younger alluvial material. The water is of good quality.

The pumice cones, of Tertiary and Quaternary age, are composed of perlitic pumice and rhyolite with some obsidian flows. This material is above the regional water table and yields virtually no water to wells.

The Coso Formation (Schultz, 1937), of late Pliocene or early Pleistocene age, is predominantly beds of steeply dipping white pumice in the mapped area; however, as described by Schultz (1937), the unit consists mainly of silt and sand with some gravel interbedded with the pumice. This formation is highly permeable but, as its position is above the regional water table, it probably does not contain large quantities of ground water.

The older alluvium of Quaternary age is composed of unconsolidated weathered gravel, sand, silt, and clay. Where saturated, the deposits yield water freely to wells. This material underlies parts of the younger alluvial deposits in Indian Wells Valley and is the principal source of ground water. South of Freeman Junction, the older alluvium probably is very thin, above the water table, and underlain by the Ricardo Formation at shallow depth. It does not appear to yield much water to wells in this area.

The older fan deposits are subdivided into three units. Unit 1 of the older fan deposits is the oldest of the three units and is composed of boulders, sand, and gravel that range from light yellow to light brown in color. The early Pleistocene age of this unit is based on fossils found by T. W. Dibblee, Jr. (oral communication, 1961). It is lithologically similar to the Coso Formation as described by Schultz (1937, p. 80), and its fossil fauna suggest that it is about the same age as the Coso Formation. Thus, it appears that this unit may be equivalent, at least in part, to the Coso Formation.

These deposits have been broken by the Garlock fault, which has impeded the lateral movement of ground water, raising the water table on the upgradient side of the fault and causing a line of small springs. The amount of flow from these springs is very small, however.

Unit 2 of the older fan deposits of Quaternary age is composed of boulders, sand, and gravel that is firmly cemented with calcareous cement. These deposits are above the water table and are not water bearing. This unit is approximately equivalent to units 1 and 2 of the old lacustrine deposits.

Unit 3 of the older fan deposits of Quaternary age is composed of silt, sand, and gravel. This unit locally overlies the older alluvium and old lacustrine deposits and in most of the mapped area is a relatively thin unit. It is mostly above the water table and is probably not water bearing, except perhaps at the mouths of some mountain canyons.

The old lacustrine deposits of Quaternary age are subdivided into two units, both of which are composed of silt, sand, clay, and freshwater marl, cemented with calcareous tufa cement. These units are separated by an ancient shoreline of calcareous tufa at an altitude of 2,200 feet above mean sea level. The older lower unit (1) is also separated from the younger unit (2) by an angular unconformity. The lower older unit dips rather steeply in local areas (up to 25°) whereas the upper younger unit is relatively flat. Both units 1 and 2 of the old lacustrine deposits contain ground water below the regional water table, but the water is generally of poor quality.

The old lakeshore deposits of Quaternary age (Wisconsin?) are composed of silt, sand, clay, and lime cement. These deposits were formed when water stood on the playa surface and now are above the water table.

The older dune-sand deposits of Quaternary age are moderately consolidated. They are anchored in their present position by shallow ground water and vegetation. They yield little water to wells because of the small saturated thickness.

The Black Mountain Basalt of Hulin (1925), of Quaternary age, is composed of vesicular to dense olivine basalt. This formation crops out in the El Paso Mountains and is above the regional water table.

The unnamed volcanic rocks of Quaternary age are composed of dark, vesicular to dense, extrusive basalt flows. In general, they are above the regional water table and yield virtually no water to wells.

The younger alluvium of Recent age is unconsolidated, moderately to well-sorted sand, clay, and gravel, which has been carried a moderate distance from the surrounding mountains that are the source area. In general, the younger alluvium thinly covers some of the older deposits. These deposits are above the water table but, if saturated, would yield water freely to wells.

The younger fan deposits of Recent age are unconsolidated, poorly to moderately sorted gravel, sand, and silt, with some mudflow debris. They are derived from local highlands and deposited close to the source area. In general, these deposits are above the regional water table but, if saturated, they might yield small amounts of water to wells.

The playa deposits of Recent age occur principally at the base level of drainage areas. They consist mainly of silt and clay and are of low permeability. Water contained in these deposits usually has a moderate to very high concentration of dissolved solids.

The dune sand of Recent age is composed of windblown sand. Except where held by shallow ground water or vegetation, the sand is actively drifting.

The materials shown on the geologic map as sand and interdune playa deposits of Recent age are the same as described under dune sand and playa deposits separately, earlier in the text, but because the playas are small, ranging from a few feet up to about 100 feet across, these two units locally have been combined into one on figure 2.

#### DESCRIPTION OF TABLES

The tables in this report contain or refer to all known data, published and unpublished, for wells in the Indian Wells Valley area.

In table 1, all wells canvassed for which data are available are listed according to township, range, and section. See well-numbering system.

Table 2 lists all known water-level measurements, published and unpublished.

Table 3 lists all known chemical analyses of water. Part A is for ground water. Part B is for surface water.

Table 4 contains all available drillers' logs of wells.

Table 5 contains all available test data on water wells.

## HYDROGRAPHS OF WELLS

Figures 3-6 are hydrographs of wells in Indian Wells Valley compiled from continuous water-level recorders.

Circles on the graphs indicate measurements that were made by wetted steel tape. Vertical lines indicate the range between the high and low readings for the month taken from water-level recorder charts.

Not all the measurements that were made by wetted tape appear on the hydrographs because some of them fall between the monthly high and low readings already on the hydrographs. For the complete records of the wetted tape measurements, see table 2.

## WELL-NUMBERING SYSTEM

The well-numbering system used in this report is that used by the Geological Survey in California since 1940. It has been adopted by the California Department of Water Resources and by the California Water Pollution Control Board for use throughout the state.

Wells are assigned numbers according to their location in the rectangular system for the subdivision of public land. For example, in the number 26S/40E-33P2, which was assigned to a well in Ridgecrest, the part of the number preceding the slash indicates the township (T. 26 S.), the part between the slash and the hyphen is the range (R. 40 E.), the number between the hyphen and the letter indicates the section (sec. 33), and the letter indicates the 40-acre subdivision of the section as shown in the accompanying diagram.

D	C	B	A
E	F	G	H
I	L	K	J
M	P	Q	R

Within the 40-acre tract, wells are numbered serially as indicated by the final digit. Thus, well 263/40E-33P2 is the second well to be listed in the SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 33. Because the area lies entirely in the southeast quadrant of the Mount Diablo base and meridian lines, the foregoing abbreviation of township and range numbers is sufficient. For parts of the valley where the survey lines are incomplete or irrecoverable, the system of land subdivision has been projected for reference purposes only.

Exceptions to the system of numbering wells according to their position in the 40-acre subdivision of the section are to be found. In these instances where the wells have been found to be located inaccurately, they have been correctly plotted on the map but the original number assigned has been retained. This has been done to avoid confusion in the numbering system and to prevent the necessity for changes in reports already published. Fortunately, these mislocated wells are few in number and are seldom misplaced any farther than one of the adjoining 40-acre subdivisions.

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- Wilcox, L. V., Hatcher, J. T., and Blair, G. Y., 1951, Quality of water of the Indian Wells Valley, California: U.S. Salinity Lab. rept. no. 54, 33 p., 11 tables.

Table 1.--Description of wells in Indian Wells Valley area

USGS number: The number given is the Geological Survey number assigned to the well according to the system described in the section on the well-numbering system.

Source of data and other numbers: The source of data on each line is indicated by the following symbols: CCC California Conservation Commission, C. H. Lee (1913); DA U.S. Department of Agriculture, Salinity Laboratory, Wilcox, Hatcher, and Blair (1951); DGT Water-Supply Paper 573, D. G. Thompson (1929); DWR California Department of Water Resources; GS U.S. Geological Survey; O owner; R California Division of Water Rights, J. T. Whistler (1923); V Roland von Huene (written communication, 1955).

Date of observation: Data for each well are presented in reverse chronological order, with the most recent information summarized on the top line, opposite the well number. Where only the year is shown, no date was given in the source reference.

Owner: The name given is the owner of the well at the time of the canvass. If data are given for more than one date, previous owners may be listed.

Year completed: The completion date was obtained from the driller's log, owner or others.

Depth: Depths of wells given in whole feet were reported by owners, drillers, or others; depths given in feet and tenths of a foot were measured below land-surface datum by the Geological Survey.

Type well and diameter: The type of well construction is indicated by the following symbols: A auger drilled; C cable-tool drilled and gravel pack; D dug; Dr drilled, method unknown; R rotary drilled; Rg rotary cored and gravel pack. The number following the letter is the diameter of the casing in inches. For an unsymmetrical dug well only the maximum dimension is given. N indicates none or no casing.

Pump type and power: The type of pump in a well is indicated by the letter symbol: C centrifugal; J jet; L lift; D none; T turbine; Ts turbine submersible. Horsepower, where known, is given only for electric motors; D diesel; E electric; G gas; H hand; N none; W wind power.

Use: The use of the well is indicated by the following letter symbols: M domestic; Ds destroyed; In industrial; Ir irrigation; Ob observation; Ps public supply; R recreation; S stock; ss seismic shothole, not cased; T test hole; P and Un unused.

Measuring point: The point from which water-level measurements by the Geological Survey are made is described as follows: Bhc bottom of hole in casing; Bpb bottom of pump base; Hpb hole in pump base; Ls land-surface datum; Na no access; Tap top of access pipe; Tc top of casing; Tcc top of casing cover, and tf top of flange. All Geological Survey measurements are from the same measuring point unless otherwise indicated.

Altitude: The altitude given is the altitude of land-surface datum, the plane of reference, at the well. Altitudes given to the nearest foot were interpolated from Geological Survey topographic maps having 40-, 50-, 80-, and 100-foot contour intervals, except for the seismic shotholes which were surveyed to the nearest foot by level. Altitudes given to the nearest tenth of a foot were determined by spirit leveling or by plane table and alidade.

Water level: Measured depths to water are given in feet, tenths, and hundredths, or feet and tenths; reported or approximate depths to water level are given in whole feet. All measurements given are from land-surface datum and have had the distance between the measuring point and land surface subtracted or added, depending on whether the measuring point is above or below land-surface datum. A plus (+) indicates the water level is above land surface.

Other data: Chemical analysis of water from the well is given in table 3A and analysis of surface water in 3B; logs of wells are given in table 4; water-level measurements for wells which have five or more measurements are listed in table 2.

USGS number	Source of data and other numbers	Date of observa- tion	Owner or user	Well data				Measuring point com- pleted:	Altitude of land (feet)	Depth below land (feet)	Other dat-	
				Year com- pleted:	Depth (feet)	Type, Pump and type of pump:	Use (in.) power:					
<u>T. 23 S., R. 38 E.</u>												
23/38- 5M1	GS	9-16-59	T. J. Brantlett	1948	32	C 14	J 2	Dm	Tcc -4.0	3,190	12.21	C
8D1	GS	9-16-59	T. J. Brantlett	1958	38	8	C 5	S	Tc 0	3,180	1.71	
17D1	GS	9- 4-59	E. E. Sullivan	1946	6.2	D 36	J 1	Ps	Tcc .6	3,190	32.12	C

T. 23 S., R. 39 E.

23/39-21K1	GS V-3	9- 2-59 1954	U.S. Naval Ordnance Test Station(NCTS)	1954	0	Well data		Measuring point com- pleted:	Altitude of land (feet)	Depth below land (feet)	Other dat-
						point	use				
25	21Q1	GS V-8	9- 2-59 1954	NOTS	1954	0	R 4	Ds T	2,289		L
	21R1	GS V-1	9- 2-59 1954	NOTS	1954	78	R 4	Ds T	2,289		L
	22L1	GS V-6	9- 2-59 1954	NOTS	1954	102	R 4	Ds T	2,289		L
					56	0	R 4	Ds T	2,295		

See footnotes at end of table.

USGS number	Source of data and other numbers:	Date of observa- tion	Owner or user	Well data	Measuring point	Altitude of lsd	Water level
				Year com- pleted	Depth (feet)	diam- eter	Other data
					Type	Pump	

23 S. 51 R. 39 E. --Continued

23/39-22M1	GS V-R	9- 2-59 1954	NOTS	1954	0 107	R 4	Ds T
22P1	GS V-7	9- 2-59 1954	NOTS	1954	0 102.8	R 4	Ds T
26R1	GS V-5	9- 2-59 1954	NOTS	1954	0 63	R 4	Ds T
27E1	GS V-4	9- 2-59 1954	NOTS	1954	0 99	R 4	Ds T
28C1	GS V-2	9- 2-59 1954	NOTS	1954	0 49.5	R 4	Ds T
28H1	GS V-9	9- 2-59 1954	NOTS	1954	0 101	R 4	Ds T

T. 23 S., R. 41 E.

23/41- 8N1 GS 8-26-59 NOTS

T. 24 S., R. 38 E.

24/38-19H1	GS	9-16-59	Stanley Smith	28.7	L W	In	Tc	0	2,960	a28.00
28Q1	GS	9-16-59	Clifford Hornbeck	1952	R 6	Ts 1 L G	Tcc	0	2,542.9	316.84 315.65
	GS	2-2-54								C,L
35E1	GS	8-25-59	NOTS	217.0	12 N N	Um	Tc	1.6	2,417.8	207.06
	DA-8									W
	R-88									

27

T. 24 S., R. 39 E.

24/39-11K1	GS	9- 1-59	NOTS	1956	500	R 2 $\frac{1}{2}$ N N	Ds		2,670	Dry
26M1	GS	6-13-60	NOTS	1960	47.9	R 6 N N	Ss	0	2,224	36.6
26M1	GS	6-20-60	NOTS	1960	26.8	R 6 N N	Ss	0	2,212	25.0
33D1	GS	7-17-52	NOTS		62.9	5 N N	Ds		2,263.3	Dry
	DA-2	2-20-46			81.0	4				68.3
	R-91	1921								68.0
	DGT-2	1920	H. F. W. Schuette		78	6 L W	Dm			68
33D2	GS	8-27-59	NOTS	101.6	D 42	Um	Tcc	0	2,263	67.67
	GS	3-16-54								67.30
	GS	3-31-53								67.31
	GS	7-17-52								67.34

See footnotes at end of table.

Source of data and other numbers	Date of observa- tion	Owner or user	Year com- pleted:	Type, Pump Depth : diam.: type (feet) : eter: and Use : (in.): power:	Measuring: point of lsd (feet):	Altitude: of lsd (feet):	Water level: below lsd (feet):
USGS number							

T. 24 S., R. 39 E. --Continued

Source of data and other numbers	Date of observa- tion	Owner or user	Year com- pleted:	Type, Pump Depth : diam.: type (feet) : eter: and Use : (in.): power:	Measuring: point of lsd (feet):	Altitude: of lsd (feet):	Water level: below lsd (feet):
24/39-33M1	GS DA-3 DGT-3	8-27-59 NOTS 2- 3-20		164 Dr 10 L H Un Tc 1.0 2,254.5		59.30	W
34M1	GS GS GS DGT-4	8-27-59 NOTS 3-31-53 7-16-52 1920		170 10 27.0 D 36 N N 140.4 C Un	Tc 1.0 Ds Tc 0	59.5 2,222	Dry 35.56 35.48
28	35D1	GS	6-13-60 NOTS	1960 21.7 R 6 N N Ss Ls 0 2,209		21.5	

T. 24 S., R. 40 E.

Source of data and other numbers	Date of observa- tion	Owner or user	Year com- pleted:	Type, Pump Depth : diam.: type (feet) : eter: and Use : (in.): power:	Measuring: point of lsd (feet):	Altitude: of lsd (feet):	Water level: below lsd (feet):
24/40- 6A1	GS DA	3-30-53 4-29-46		90.5 Dr 6 NOTS	Ds	2,363	Dry 116.8
9K1	GS	3-30-53		90.0 R 6 N N Ds		2,365	Dry
19M1	GS GS DGT-1	9- 2-59 4-16-53 1920	H. F. W. Schuette	32.0 D 48 N N Un 32 L S	Tc .85 2,213.2	30.09 29.36 21	
20J1	GS	9- 2-59		28.3 Dr 8 N N Un 1960 35.8 R 6 N N Ss Ls 0 2,223	Tc .5 2,203.6 2,223	17.57 35.8	C, W
21H1	GS	6-20-60					

21RL	GS	6-20-60	NOTS	1960	34.6	R 6	N N	Ss	Ls	0	2,228	34.6	
27NL	GS	6-16-60	NOTS	1960	27.0	R 6	N N	Ss	Ls	0	2,184	7.3	
27RL	GS	9- 2-59	NOTS		6.0	Dr 5	N N	Un	Tcc	1.0	2,174	3.40	
	GS	10-20-53							Tc	1.0		4.67	
	GS	9-22-53										4.20	
	GS	6-28-53										3.70	
					5.2								
30J1	GS	9- 2-59			15.0	D 15	N N	Un	Ls	0	2,189.0	8	
	GS	3-30-53										8	
32HL	GS	9- 2-59	NOTS		111.5	Dr 6		Un	Tc	1.0	2,178.8	5.13	
33EL	GS	9- 2-59	NOTS		160.8	Dr 1 $\frac{1}{4}$	N N	Ob	Tc	6.0	2,178.0	+.91	
33NL	GS	9- 2-59	NOTS		15.9	Dr 4	N N	Un	Tc	.8	2,175.8	4.05	
34DL	GS	9- 2-59	NOTS		15	D 300	N N	Un	Tc	.5	2,177	7.35	
	GS	10-20-53										7.2	
	GS	9-22-53										6.7	
	GS	6-28-53										6.61	
34D2	GS	6-16-60	NOTS	1960	27.5	R 6	N N	Ss	Ls	0	2,180	8.2	
34EL	GS	9- 2-59	NOTS	1953	21.0	A 1 $\frac{1}{4}$	N N	Ob	Tc	.95	2,176.7	4.52	
34FL	GS	6-16-60	NOTS	1960	19.6	R 6	N N	Ss	Ls	0	2,176	6.2	
34PL	GS	6-16-60	NOTS	1960	23.5	R 6	N N	Ss	Ls	0	2,172	5.9	
35J1	GS	9- 2-59	NOTS	1953	7.0	A 1 $\frac{1}{4}$	N N	Ob	Tc	.9	2,170	3.40	
35Q1	GS	2- 8-54	NOTS	1953	A 4	N N	DS			2,173	Dry	L,W	
36M1	GS	9- 2-59	NOTS		7.5	Dr 10	N N	Un	Tc	0	2,174.4	4.98	C,M

USGS number	Source of data and other numbers:	Date of observa- tion	Owner or user	Well data				Measuring point (feet)	Altitude of 1st (feet)	Water level below 1st (feet)	Other data
				Year com- pleted	Depth (feet)	Type of diam- eter	Pump use (in.)				
<u>T. 25 S., R. 38 E.</u>											
25/38-10H1	GS	9-16-59	Dr. Flagg	432	R 6	Ts 1	Dm	Na	2,490	312	
11K1	GS	8- 6-59	E. Standard	Dr 10	L N	Un	Tcc	1.5	2,400	193.40	
	GS	3-31-53			L W					192.63	
	GS	10-22-52								197.72	
11K2	GS	8-25-59	Union Pacific	Dr 6	N N	Un	Tc	.7	2,395	189.90	C
	DWR	6- 5-53	Railroad Co.							188.8	
12J1	GS	10-20-52	NOTS	Ds					2,337.1		
	DGT-9	1920	Roy Jones								
	CCC-1	1912	S. R. Smith	337	Dr 24	G	Ir			132.0	
13D1	CS	12-10-59	NOTS	216.0	Dr 12	N N	Un	2.4	2,351.2	146.54	W
	DA-7										
13J1	GS	12-10-59	NOTS	149.5	Dr 12	N N	Un	4.0	2,295	88.07	
13K1	GS	12-10-59	NOTS	139.7	Dr 12	N N	Un	1.6	2,316.2	112.26	
	GS	4-29-53								111.7	
	DA	2- 6-46		141.5			Un			111.6	
15B1	GS	9-16-59	M. P. Saulter	1957	R 6	Ts 1	Dm				
		12-11-59		259.0	Dr 12	N N	Un	Tcc	0	2,510	299.30
23G1	GS	1953	NOTS								L
	DA-9	1921									
23K1	GS	11-19-59	McMillan	Ds							C,W
	R-87	1921									
	R-86										
24C1	GS	11-19-59		135.0	Dr 10	N N	Un	Tc	1.5	2,329.2	124.61
	R-74	1921								123	W
									2,440	237	

See footnotes at end of table.

Source of data and other numbers	Date of observa- tion	Owner or user	Well data	Measuring: point of 1sd (feet)	Altitude: of 1sd (feet)	Water level 35. 35.6
USGS number	com- pleted:	com- pleted:	Year Depth (feet):	Type, Pump diam-type (feet):	Use eter: and (in.): power:	Other data (feet):

T. 25 S., R. 39 E.--Continued

25/39- 2n1	GS R-94 DGT-6	7-16-52 1921 2- 3-20	NOTS Boynton	30.1 D 60	DS	Tc 0
2M2	GS	6-16-60	NOTS	1960	33.8 R 6 N N	Ss Ls 0 2,224
2P1	GS	6-16-60	NOTS	1960	33.0 R 6 N N	Ss 2,218
3P1	GS R-77	4- 7-53 1921	NOTS Morrison	12.0 D 60	DS Un	Dry 1.5
32	lF1	GS R-89 DGT-8a	12-16-52 1921 2- 3-20	NOTS William Cahill	DS	2,265
4G1	GS R-90	12-16-52 1921	NOTS Cahill	137.5 12 N N	Tc .33	71.5 67.67
4P1	GS R-92 DGT-8	12-16-52 1921 2- 3-20	NOTS Dimmock William Cahill	DS	2,255	66.7
4R1	GS	8-27-59	NOTS (LB well)	1952	200 Rg 10 T 7½ Ps	Bpb .75 2,252.6
5R1	GS DA	8-20-52 2-17-46	NOTS	140 Dr 12	DS	Tc 1.0
7K1	GS R-71 DGT-9a	8-10-59 1920	NOTS	57.0 24	DS	1.4 2,274.2
						79.1 Dry
						C,L,W
					L	

8G1	GS R-75	10-20-52 1921	Schuette	D	Ds	2,280	
	DGT-11 CCC-4	2- 3-20 1912	H. F. W. H. F. W.	Schuette	92.7 D 60 L	0	73.8
				75 D 60 L H	Dm		73.0
9G1	GS DA	8-27-59 2-15-46	NOTS	40.1 Dr 6 N N	Ds	1.7 2,253.7	b/ Dry W
	DGT-12 CCC-5	1912	W. J. Eastman	62.3			
9J1	GS GS GS	8-27-59 3-31-53 9- 9-52	NOTS (Bl well)	Dr 7 L H	Dm		
	R-78			200 T 5 Ps	Bpb	.5 2,248.1	C
10A1	GS DGT-13	12-17-52 1920	NOTS Hubbard	Dr 10 T 5 Ps			52.90 52.46 52.50
				180 I4 C	Ds	2,225	
10E1	GS DA	12-17-52 2-15-46	NOTS	66.1 10	Ds	1.9 2,246.4	51.6 58
33	R-76	1921					
10Q1	GS DA-10 R-61 DGT-14	8-27-59 1920	NOTS Johnson	45.0 D 48 N N	Ds	2,240.0	Dry W
				175			
11C1	GS	6-14-50	NOTS	1960 27.1 R 6 N N	Ss	Ls 0 2,216	26.7
11G1	GS	6-14-60	NOTS	1960 39.4 R 6 N N	Ss	Ls 0 2,210	29.4
11M1	GS R-95	8-27-59	NOTS	107.0 D 12 N N	Um	Tc 1.87 2,228.1	35.27 W
12D1	GS	6-14-60	NOTS	1960 21.7 R 6 N N	Ss	Ls 0 2,209	21.0
12M1	GS	6-14-60	NOTS	1960 21.3 R 6 N N	Ss	Ls 0 2,208	21.0
12N1	GS	9- 1-59	NOTS	161.9 Dr 12 N N	Um	Tcc 2.02 2,211	24.66 W

See footnotes at bottom of page

USGS number	Source of data and other numbers	Date of observa- tion	Owner or user	Well data	Measuring point of 1st (feet)	Altitude of 1st (feet)	Water level (feet)

T. 25 S., R. 39 E.--Continued

25/39-12R1	GS R-98 DGT-17 CCC-21	8-25-59	NOTS (C well 1)	180.5 Dr 10 T 3 Ps Tc 2.0 2,200.9	17.68	C,W
12R2	GS	8-25-59	NOTS (C well 2)	1955 146.5 R 12 T 7½ Ps Bpb 2.90 2,196.1	14.95	C,W
13E1	GS DA-12 DGT-20 CCC-22	9- 1-59 2-18-46 1920 1912	NOTS A. L. Pitzer	185.6 D 56 N N Un Tc .3 2,209.9	22.60	W
				12 N N Un	21.7	
13E2	GS DA	7-16-52 2-18-46	NOTS	Ds Tc -.5 2,206.2	20.0	
13F1	GS	6-14-60	NOTS	1960 20.9 R 6 N N Ss	18.50	
13K1	GS	6-14-60	NOTS	1960 29.5 R 6 N N Ss	18.2	
13M1	GS	6-15-60	NOTS	1960 21.9 R 6 N N Ss	16.7	
14N1	GS R-58 DGT-21 CCC-24	7-16-52 1921 1920 1912	NOTS Haney W. M. Randall	5 Dr	2,206	17.2
15C1	GS DGT-15	8-27-59 1920	NOTS Mrs. M.J. Rodecker	200 G Tr	32	L
					33.4	
					50.58	W
					50.58	

17D1	GS DA-6 R-72	8-27-59	NOTS		88.0	Dr 12	N N	Un	Tcc	.2	2,271.1	70.81	W
17D2	GS	8-27-59	NOTS		80.8	Dr 10	N N	Un	Tc	-.8	2,271.1	69.86	W
18D1	GS R-70 DGT-10 CCC-2	8-25-59	NOTS		108.9	Dr 24	N N	Un	Tcc	-.1	2,295.6	92.84	W
18M1	GS GS R-69 DGT-23 CCC-3	1912	S. R. Smith		312	Dr 24	G	Ir	Ds		2,280	74.72	L
		8-25-59	NOTS		127.1	Dr 24	N N	24	Tc	0		75	
		4- 7-53											
		1921											
		1920											
		1912	S. R. Smith										
19K1	GS DA-17 R-68	4- 7-53	NOTS		231	Dr 10	Ds				2,243.9	42.2	
		2-15-46											
		1921											
20P1	GS R-66 DGT-24 CCC-12	4- 8-53	NOTS		10.0	D	Ds				2,250	Dry	
		1921											
		1920											
		1912	Mrs. J. E. Edwards		50	D 60	L W	Dm					
21B1	GS DA-11	4- 8-53	NOTS		106.5	Dr 12	Ds				2,232.8	36.8	
		2-14-46											
21D1	GS R-65	8-27-59	NOTS		46.7	24	T N	Un	Tc	.7			
21M1	GS R-64	12-17-52	NOTS				Ds				2,231	34.5	
		1921	Siebenthal										
21M2	GS	10-23-59	NOTS		35.0	D 48	N N	Un	Tf	0	2,231	32.52	
21P1	GS DGT-25	10-23-59	NOTS	O. G. Siebenthal	35.8	12	C	Un	Tc	1.0	2,226.9	30.70	W
		1920			175								

USGS number	Source of data and other numbers	Date of observation	Owner or user	Well data	Measuring point	Altitude of 1st	Water level

T. 25 S., R. 39 E.--Continued

25/39-22B1	GS GS GS DA-15	8-27-59 3-31-53 9- 9-52 2- 7-46	NOTS	155.0 Dr 10 Un	Na Tcc 0	2,225.0	32.65 32.73 33.0
22D1	GS DA R-63	9- 9-52 2-14-46 1921	NOTS	91.0 Dr 8 Ds	Tc .9	2,228.9	34.1 35
22J1	GS GS DA-16	10-23-59 4- 8-53 2- 6-46	NOTS	144.0 Dr 12 N N 143.5	Tc 3.0	2,215.4	24.01 23.40 23.5
36	GS DA R-57	7-16-52 2- 7-46 1921	NOTS 101 Ranch	31.5 Dr 12 Un	Tc 1.5	2,220.4	30.0 30
23K1	GS GS GS	10-21-59 9-20-57 4- 1-53	NOTS	23.5 Dr 6 N N 26.7 D 60 N N 260 Dr 12 N N Ds	Tc 1.5	2,209.9	23.13 22.89 22.59 C, W 20.24 2,203.5 20
24D1	GS R-59 DGT-22 CCC-23	9- 1-59	NOTS				
24D2	GS R-60	7-16-52 1921	E. S. Pitzer Hansen				

24D3	GS	6-15-60	NOTS	1960	18.0	R 6	N N	Ss	Ls	0	2,203	15.0
24E1	GS	6-15-60	NOTS	1960	16.4	R 6	N N	Ss	Ls	0	2,201	14.3
24M1	GS DGT-26	10-21-59 1920	NOTS J. C. coleman	1960	91.3 151	Dr 12 12	N N	Un	Tc	0	2,203.5	17.46 L,W
24M1	GS	6-15-60	NOTS	1960	16.0	R 6	N N	Ss	Ls	0	2,196	8.3
25D1	GS	10-21-59	NOTS	1960	26.5	Dr 6	N N	Un	Tc	1.0	2,201.5	15.84 W
25D2	GS	6-15-60	NOTS	1960	14.1	R 6	N N	Ss	Ls	0	2,199	13.0
25L1	GS	6-15-60	NOTS	1960	14.7	R 6	N N	Ss	Ls	0	2,201	13.7
25P1	GS	6-15-60	NOTS	1960	33.8	R 6	N N	Ss	Ls	0	2,202	14.4
26D1	GS CCC-25a	10-23-59 1912	NOTS O. E. Weisel	1960	23.0 33	Dr 6	N N	Un L H S	Tc	.9	2,211.5	21.07 W
26D2	GS R-56 CCC-25b	10-23-59 1921	NOTS Hanlin	1960	20.7	Dr 10	N N	Un	Tc	0	2,212.4	20.30 19.5 20.5
26E1	GS DA R-55	4-8-53 2-6-46 1921	NOTS	1960	15.0	D		Ds	Ds		2,212.0	20.5
26M1	GS	10-21-59	NOTS (snort well)	1952	302	Dr 12	T 5	Ps	Hpb-13.3	2,202.8	15.32 C, L,W	
26M1	GS	10-23-59	NOTS	1960	Dr 14	T N	Un	Tap	2.0	2,220.6	28.56 W	
27A1	GS DGT-27 CCC-25	7-17-52 1920 1912	NOTS O. E. Weisel	1960	—	—	—	—	Ds	2,210		
37				25	Dr 6	L H	Dm				23.1	

Source of data and other numbers	Date of observa- tion	Owner or user	Year com- pleted	Type, Pump Depth : diam-type (feet) : eter: and (in.) : power:	Well data	Measuring: point : Altitude of 1sd : Depth (feet) : below 1sd (feet)	Water level Other data below 1sd (feet)
T. 25 S., R. 39 E.--Continued							

25/39-27M	GS DGT-30 CCC-13	10-23-59 1920 1912	NOTS V. L. Carr	25 100 103	N N Dr 10 Dr 10	DS G Dm	2,221.5 Dry W
28PL	GS R-46	10-23-59 1920	NOTS	160.7 12	N N Un	Tc 0	2,228.9 31.67 C, W
28PL	GS R-45 DGT-32 CCC-27	10-23-59 1920 1912	NOTS Horace Bellows	122.4 196 196	N N Dr N N	Un Tc 2.0	2,227.9 32.07 W
29BL	GS DA R-62	4- 7-53 1946 1921	NOTS	3.9		DS	2,228.8 Dry 31.5
29M1	GS GS GS DGT-29 CCC-11	12-10-59 3-16-54 4- 7-53 1920 1912	NOTS R. B. Clapp	Dr 12 Un 140.7 206	N N Tc 2.5	2,232.1 31.58 30.71 30.70	31.58 30.71 30.70
30BL	GS R-67 DGT-28 CCC-10	7-17-52 1921 1920 1912	NOTS Staley Mrs. V. Lovenguth	16.9 D 48 40	N N L H Dm	DS 2,240 Dry 32.5	31.2 31.2 (a)
30ML	GS	12-17-59		1955	T 30	Tr	2,270

30Q1	GS	5-19-52	NOTS		35.9 Dr 12	DS		2,250	Dry
31D1	GS	3-31-53	A. Richards	1950	252 Rg 12 T 30 Ir	Tc	.4	2,272.3	c73.7 69.6 <sup>4</sup>
	GS	10-21-52							68.92
	GS	9- 8-52							68.26
	GS	6- 6-52							
31E1	GS DA-21	12-17-59	Q. Hardy	164	R 12 N W Un	Tc	2.42 2,283.7	78.03	C,W
31E2	GS	12..17-59	Q. Hardy	1956	250 Rg 11 T 20 Ir	Bhc	0	2,284	79.90
31G1	GS DGT-36 CCC-18	10-22-52 1920 1912	Sturgis C. B. Walker	45.2 D 36	DS			2,260.4	Dry
31M1	GS GS DA DGT-37 CCC-19	12-17-59 6- 6-52 1946 1920 1912	Tom Earnst Donahue C. C. Paxton	D 36 L H	Dm			57.1	
				200 Dr 10 L E	DS				
				160					64.2
31M2	GS	12-17-59	Tom Earnst	Dr 7 G	Dm			72.0	
31M3	GS	12-17-59	Indian Wells Valley Lining & Milling Co.	103 Dr 8 L E	Dm	Tc	1.0	2,277	73.32
				170 C 8 Ts E	In	Tap	1.0	2,287	83.15
32D1	GS DA	5-19-52 2- 4-46	NOTS	36.1 Dr 6	DS			2,239.0	Dry
				43.5 6				35.9	
32E1	GS DA R-47	5-19-52 2- 4-46 1921	NOTS	44 D 48	DS DS			2,240.0	45.5
32H1	GS DA	5-19-52 2- 4-46	NOTS	44.3	DS			2,244.8	43.9

Source of data: and other numbers:	Date of observa- tion	Owner or user	Well data	Measuring point of lsd (feet)	Altitude of lsd (feet)	Water level (feet)
USGS number	Year com- pleted.	Depth (feet):	Type, Pump use:	point of lsd (feet)	Altitude below lsd: (feet)	Other data

T. 25 S., R. 39 E.--Continued

25/39-32N1	GS DA R-48	4- 7-53 2- 5-46 1921	NOTS	D 48	51.8	2,257.8
32RL	GS R-49 GS	10-22-59	NOTS	Dr 10 N N	Un	Ds
33Q1	DA R-50	2- 5-46 1921	NOTS	60.2	Dr 1.2	2,266.0
34RL	GS DA R-51 CCC-15	4- 8-53 2- 5-46 1921 1912	NOTS	D 60	60	Ds
35GL	GS R-54 DGT-38 CCC-16	5-14-52 1921 1-27-20 1912	NOTS Calloway J. W. Calloway J. W. Calloway	58.5	Dr 12	2,251.2
35N1	GS DA-52 R-53	10-22-59	NOTS (well 2)	Dr L W	Dr	Ds
35N2	GS DGT-39	10-22-59	NOTS (well 4) J. W. Calloway	10.0	D 48	2,235
36CL	GS	6-15-60	NOTS	34.6	D 48	52
				152.0	Dr 12 T D	127
				Ir	Hpb .7	12 L
				1960	26.2 R 6 N N	Ir
					Ss	34.4
					Ls 0	2,244.9
						51.04
						W
						17.4



USGS number	Source of data and other numbers	Date of observa- tion	Owner or user	com- pleted:	Well data			Measuring: point of 1st (feet):	Altitude: of 1st (feet):	Water level: below 1st (feet):				
					Type:	Pump:	Year:							
25/40-12M2	GS	8-28-59	NOTS		5.0	A 1½	N N	Ob	Tc	4.3	2,162.4	2.30	L,W	
12P1	GS	8-28-59	NOTS	2- 6-54	26.8	Dr 6	N N	Un	Tc	0	2,160	4.00		
	GS								Tc	0		3.36		
12Q1	GS	8-28-59	NOTS		14.5	Dr 10	N N	Un	Tc	1.2	2,160.6	4.42	W	
12Q2	GS	8-28-59	NOTS	10-20-53	8.8	Dr 5	N N	Un	Tc	0	2,161	5.00		
	GS			3-30-53					Tc	1.3		5.27		
	GS			12-18-52								4.22		
												4.50		
<sup>F</sup> 13M1	GS	6-16-60	NOTS		1960	25.9	R 6	N N	Ss	ls	0	2,160	5.2	
14A1	GS	6-16-60	NOTS		1960	2½.3	R 6	N N	Ss	ls	0	2,161	4.3	
14H1	GS	9-15-59	NOTS			6.5	Dr 4	N N	Un	Tc	0	2,160.5	3.47	W
14J1	GS	6-16-60	NOTS		1960	25.9	R 6	N N	Ss	ls	0	2,160	4.3	
18B1	GS	12-17-52	NOTS						DS		2,195		L	
	R-99	1921	Kline											
	DGT-19	1920	cline											
18R1	GS	8-25-59	NOTS			160	12	N N						
19E1	GS	6-15-60	NOTS			31.3	Dr 10	N N	Un	Tc	0	2,183	3.21	W
19I1	GS	8-25-59	NOTS		1960	18.0	R 6	N N	Ss	ls	0	2,192	11.7	

T. 25 S., R. 40 E.--Continued

19PL	CS	6- 9-60	NOTS	1960	9.6	R 6	N N	SS	1s	0	2,189	6.3
19Q1	GS	6- 9-60	NOTS	1960	12.7	R 6	N N	SS	1s	0	2,189	7.8
20FL	GS	8-25-59	NOTS		182.6	Dr 12	N N	Un	Tc	1.5	2,179.5	.25
24BL	GS	3-16-54	NOTS		9.7	Dr 1 $\frac{1}{4}$	N N	Ob	Tc	2.5	2,158.7	L, W
24CL	GS	8-28-59	NOTS		6.2	Dr 4	N N	Un	Tc	0	2,160.0	4.41
	GS	3-16-54									5.91	
	GS	11-23-53									5.88	
	GS	10-22-53									5.80	
24HL	GS	8-28-59	NOTS		40.4	Dr 10 $\frac{1}{2}$	N N	Un	Tc	3.0	2,159.4	5.84
24ML	GS	8-28-59	NOTS	1953	30.5	Dr 1 $\frac{1}{4}$	N N	Ds			2,159.7	C, L, W
25CL	GS	6-16-60	NOTS	1960	25.6	R 6	N N	SS	1s	0	2,162	12.0
25C2	GS	6-16-60	NOTS	1960	21.0	R 6	N N	SS	1s	0	2,157	8.1
25HL	GS R-4L	8-28-59	NOTS		5 $\frac{1}{4}$ .8	Dr 5 $\frac{1}{2}$	N N	Ob	Tc	2.5	2,152.2	2.78
												W
25H2	GS	3-16-54	NOTS		8.3	Dr 5	N N	Un	Tc	1.4	2,151.8	4.70
25H3	GS	8-28-59	NOTS		20.6	Dr 10	N N	Un	Tc	0	2,152	3.98
25L1	GS	6-16-60	NOTS	1960	27.2	R 6	N N	SS	1s	0	2,153	5.3
25P1	GS	8-28-59	NOTS	1953	700	Dr 8	N N	Un	Tc	0	2,151.8	2.75
25Q1	GS	6-16-60	NOTS	1960	27.1	R 6	N N	SS	1s	0	2,153	6.7
27E1	GS	9- 2-59	NOTS	1953	16.4	A 1 $\frac{1}{4}$	N N	Ob	Tc	1.2	2,168.7	4.40
29M1	GS	6- 9-60	NOTS	1960	15.9	R 6	N N	SS	1s	0	2,186	6.2

Source of data and other numbers	Date of observa- tion	Owner or user	Well data	Measuring point of 1sd (feet)	Altitude of 1sd (feet)	Water level (feet)
USGS number	com- pleted:	com- pleted:	Use (in.)	Use (in.)	Depth below 1sd (feet)	Other data
25/40-29P1	GS	6- 9-60 NOTS	1960	6.5 R 6 N N	SS Ls 0	2,184 5.5
30H1	GS	6- 9-60 NOTS	1960	9.2 R 6 N N	SS Ls 0	2,188 6.9
31W1	GS DGT-31	10-21-59 NOTS 1920 Chester Smith		16.3 Dr 6 N N	Ds	2,200.1 Dry 5
31P1	GS	6-14-60 NOTS	1960	13.0 R 6 N N	SS Ls 0	2,201 15.5
31Q1	GS	6-14-60 NOTS	1960	30.9 R 6 N N	SS Ls 0	2,189 8.4
F 31R1	GS	6-14-60 NOTS	1960	36.0 R 6 N N	SS Ls 0	2,182 12.2
32B1	GS	6- 9-60 NOTS	1960	8.3 R 6 N N	SS Ls 0	2,180 3.2
32J1	GS	6- 9-60 NOTS	1960	16.4 R 6 N N	SS Ls 0	2,182 6.6
32J2	GS	6- 9-60 NOTS	1960	12.8 R 6 N N	SS Ls 0	2,179 3.1
32N1	GS	6-14-60 NOTS	1960	15.2 R 6 N N	SS Ls 0	2,175 4.7
32P1	GS	6-14-60 NOTS	1960	11.9 R 6 N N	SS Ls 0	2,174 7.1
32R1	GS	6-14-60 NOTS	1960	8.8 R 6 N N	SS Ls 0	2,176 7.6
33L1	GS	8-25-59 NOTS	1954	171.4 Dr 6 N N	Ob Tc 1.7	2,171.1 2.22 L,W
33L2	GS	8-25-59 NOTS	1954	21.2 Dr 8 N N	Ob Tc 1.8	2,171.0 2.74 C,L,W

T. 25 S., R. 40 E.--Continued

33N1	GS	6-14-60	NOTS		1960	7.2 R 6 N N Ss	Ls	0	2,177	2.3
33P1	GS	6-14-60	NOTS		1960	30.5 R 6 N N Ss	Ls	0	2,169	2.8
33R1	GS	6-14-60	NOTS		1960	35.3 R 6 N N Ss	Ls	0	2,171	3.1
34M	GS	6- 9-60	NOTS		1960	26.0 R 6 N N Ss	Ls	0	2,166	Flowing
34Q1	GS	6- 9-60	NOTS		1960	16.2 R 6 N N Ss	Ls	0	2,161	Flowing
34R1	GS	6- 9-60	NOTS		1960	18.0 R 6 N N Ss	Ls	0	2,160	1.4
35D1	GS	5- 7-53	NOTS 1912 C. C. Paxton			Ds			2,157	9.5
35P1	GS	9- 2-59	NOTS		1953	Dr 6 G S				
35P2	GS	6- 9-60	NOTS		1960	15.4 A 1½ N N Ob	Tc	2.2	2,158.8	3.85
35R1	GS	6-14-60	NOTS		1960	28.6 R 6 N N Ss	Ls	0	2,155	1.9
35R2	GS	6-14-60	NOTS		1960	45.0 R 6 N N Ss	Ls	0	2,154	3.9
36C1	GS	6-16-60	NOTS		1960	26.8 R 6 N N Ss	Ls	0	2,154	3.0
36J1	GS	6-16-60	NOTS		1960	24.4 R 6 N N Ss	Ls	0	2,154	7.6
36M1	GS	6-14-60	NCTS		1960	8.5 R 6 N N Ss	Ls	0	2,154	7.7
36P1	GS	6-14-60	NOTS		1960	29.1 R 6 N N Ss	Ls	0	2,155	3.0
36R1	GS	6-16-60	NOTS		1960	30.3 R 6 N N Ss	Ls	0	2,155	3.6
						25.3 R 6 N N Ss	Ls	0	2,156	9.8

USGS number	Source of data and other numbers:	Date of observa- tion	Owner or user	Well data	Measuring point	Altitude of lsd (feet)	Water level
	com- pleted	Year com- pleted	Depth (feet)	Type, diam, eter:	Pump use	Depth below lsd (feet)	: Other data (feet)
25/41-19LL	GS	9- 4-59	NOTS	1953	23.5 A 1 $\frac{1}{4}$ N N	Ob	Tc 2.5 2,157.8 5.40 C, L, W
28BL	GS	8-27-59	NOTS	1954	161.8 Dr 8 N N	Ob	Tc 1.5 2,238.6 67.73 C, L, W
28ML	GS	8-27-59	NOTS	1953		Ds	2,173.6 L, W
31CL	GS	9- 4-59	NOTS		9.2 Dr 5 N N	Un	Tc .75 2,153.1 6.46 C, W

T. 25 S., R. 41 E.

25/41-19LL	GS	9- 4-59	NOTS	1953	23.5 A 1 $\frac{1}{4}$ N N	Ob	Tc 2.5 2,157.8 5.40 C, L, W
28BL	GS	8-27-59	NOTS	1954	161.8 Dr 8 N N	Ob	Tc 1.5 2,238.6 67.73 C, L, W
28ML	GS	8-27-59	NOTS	1953		Ds	2,173.6 L, W
31CL	GS	9- 4-59	NOTS		9.2 Dr 5 N N	Un	Tc .75 2,153.1 6.46 C, W

T. 26 S., R. 37 E.

26/37-23ML	GS	12-17-59	U.S. Grazing Service (Walker well)	Tr 6	L W S	Tf 1.0 4,625	30.97
28DL	GS	12-18-59	Griffin	204	C L W	Dm	4,750 190
34BL	GS	12-17-59	U.S. Grazing Service	Dr 6	L W S		
35EL	GS	12-17-59	H. M. Robinson	1948	80 C 8 L E	Dm	3.0 4,300 40.53
35LL	GS	12-17-59 3-15-53	F. J. Wheeler	1918			
35L2	GS	12-17-59	F. J. Wheeler	1956	80 Dr 3 L W	Un	Tcc .3 4,150 27.02
							25.21

T. 26 S., R. 38 E.

26/38- 1A1	GS R-73 DGT-40	6- 5-52 1921 Siebenthal 1920 E. C. Siebenthal	0. G. Siebenthal	105 Dr 12 Ds	Dry 93 95
1B1	GS	12-17-59 J. L. Richards	120 Dr 8 L W Dm	Dr 12 L	W
1B2	GS	12-17-59 Harrison	1950 Dr 6 L E Dm	120 Dr 8 L	
1G1	GS GS GS	12-17-59 V. L. Carr 4- 2-53 6- 5-52	1947 Dr 8 Ts E Dm	154 Dr 8 L E Dm	
1H1	GS	12-17-59 O. G. Siebenthal	1946 Dr 8 T 3 Dm	150 Dr 6 L E Dm	
1H2	GS	6- 5-52 J. Fair	1947 Dr 8 L 3/4 Dm	156 Dr 8 Ts E Dm	
2Q1	GS DA-20 R-84 DGT-41	3-16-54	269.7 Dr 12 Un	1950 Dr 6 Ma	
3K1	GS GS GS	12-17-59 Tom Earnst 3-16-54 (Brady's Station) 4- 4-53	310 Dr 6 Ts 3/4 Dm	105 Dr 12 L	
10H1	GS	11- 8-60	285.0 Dr 12 N N Ds	110 Dr 6 Ts 3/4 Dm	
15Q1	GS	8- 5-53 Indian Wells Spring	285.0 Dr 12 N N Ds	110 Dr 6 Ts 3/4 Dm	
17E1	GS GS	12-17-59 U.S. Grazing Service 3-14-53 (Powers well)	110 Dr 6 L W S	110 Dr 6 L W S	
22D1	GS GS GS	12-17-59 C. J. Vosburg 4- 4-53 U.S. Grazing Service 6- 5-52 (Homestead well)	35 Dr 6 L G Dm	110 Dr 6 L W S	

See footnotes at end of table.

Source of data and other numbers				Date of observation:	Owner or user	Year completed:	Type, Pump diam-type (feet):	Depth com- pleted: (feet):	Altitude of lsd: (feet):	Water level: Depth below lsd: (feet):	Other data
							Type, Pump diam-type (feet):	Depth com- pleted: (feet):	Altitude of lsd: (feet):	Water level: Depth below lsd: (feet):	
USGS number	26/38-22D2	GS GS	4- 4-53 6- 5-52	C. J. Vosburg		1950	Dr 8 L $\frac{1}{2}$	Dn	Tc 0	2,800	63.10 87.49
	22D3	GS GS	12-17-59 4- 4-53	C. J. Vosburg		1952	94.0 Dr 8	N N Un	Tc 1.0	2,800	d71.53 66.18
	24G1	GS DA R-83	12-17-52 2-21-46 1921				12	Ds	Tc 1.0	2,479.4	269.0 267
F <sub>0</sub>	24Q1	GS R-82 DGT-79 CCC-32	12-17-52 1921 1920 1912	Fairbanks L. G. Fairbanks				Ds		2,460	265.5
	33PL	GS	12-18-59	Captain Beckman		475	N N Ds			3,080	Dry
			<u>T. 26 S., R. 39 E.</u>								
	26/39- 1C1	GS	6-15-60	NOTS		1960	38.4 R 6	N N Ss	Ls 0	2,228	38.3
	1C2	GS	6-15-60	NOTS		1960	46.0 R 6	N N Ss	Ls 0	2,236	45.1
	1E1	GS DA DGT-45	12-16-52 1-23-46 1920	NOTS Galbreath				Ds		2,249.0	56.1 65
	1H1	GS	6-15-60	NOTS		1960	53.3 R 6	N N Ss	Ls 0	2,246	52.0

2C1	GS	10-22-59	NOTS		76.4	Dr 12	N N	Un	Tcc	.1	2,248.3	54.73	W
2C2	GS DA	5-14-52 1-24-46	NOTS	55		Ds	m.c.	.8		2,246.8		53.9	
2D1	GS DGT-44	10-22-59 1-27-20	NOTS W. H. Calloway	97.8 115	Dr 14	N N	Un	Tcc	0	2,258.8	63.58	W	
2M1	GS GS DA	10-22-59 4-25-53 1-24-46	NOTS	158.5 160	Dr 12	N N	Un	Tc	.9	2,285.7	85.00 83.56 82.6		
3D1	GS DA-29	10-22-59	NOTS	68.0	Dr 12	N N	Un	Tc	1.7	2,264.6	77.59	W	
3Q1	GS DA	4-25-53 1-25-46	NOTS		Dr 12			Ds		2,291.0		90.3	
F	I <sub>4</sub> H1 R-52 DGT-43 CCC-14	GS DA R-52 1921 1920 1912	NOTS 1-19-52 1-31-46 Shanks Thompson D. N. Shanks	68.3 77	12		Ds	Tc	.5			L	
								Tc	.4	2,276.1		76.1	
							Dr 12	C				61	
							Dr 12	G	Ir			70	
5F1	GS	9-18-58	NOTS (B4 well)	1952	200	R 10	T 7½	Ps	Rpb	.25	2,276.7	72.78	C, L, W
6M1	GS GS	4- 2-53 12-15-52	R. D. Lewis	1952	155	Dr 10	L 1	Dm	Tc	.5	2,315	109.9 109.4	
6I2	GS DGT-42 CCC-20	7-17-52 1920 1912	E.C. Siebenthal		7.0	Dr 6	N N	Ds		2,315		110	
7D1	GS	1-13-60	Fred Lathrop	1959	170	C 8	Ts E	Dm	Tap	1.0	2,335	132.48	
7N1	GS DA-19	1-12-60 1946	F. O. Henderson	1926	368	Dr 12	T N	Un	Tc	-3.5	2,394.3	195.42	C, W

See footnotes at end of table.

Source of data and other numbers	Date of observa- tion	Owner or user	Well data	Measuring point of 1sd (feet)	Altitude of 1sd (feet)	Water level (feet)	Other data
USGS number			Year com- pleted	Type, Pump diam-type (feet): eter: and (in.):power:	Depth (feet)	Depth (feet)	
26/39- 7N2	GS	1-12-60	F. O. Henderson	1958	368 Rg 6 Ts E Ps Na	2,395	195
3K1	GS	10-22-59	NOTS		180.2 Dr 12 N N Un	0.2	2,321.0
	GS	3-17-54					117.47
	GS	4-24-53					115.32
	DA-31	2- 1-46					115.16
							113.9
9C1	GS	12-10-59	NOTS	1913	94.5 D 60 T N Ds	2,300.9	Dry
10N1	GS	10-11-56	NOTS		0 N N Ds	2,333.0	W
50	DGT-57 CCC-17		E. B. Morse	300 D 144 G Dm			
11E1	GS	10-22-59	NOTS (well 14)	1951	250 Dr 16 T 25 Ps	103.89	C, L, W
11E2	GS DA-53 DGT-58	10-22-59 1-22-46 1-27-20	NOTS H. N. Androus		112 16 N N Un	2,305	L
11H1	GS GS DGT-59	4- 1-53 5-14-52 1920	NOTS F. H. Hill		220 24 L Ir Hp b -3.0	101.5 94.7	
11Q1	GS DA-27 DGT-60	9-17-58	NOTS W. B. Adams		Ds	2,285	L
12E1	GS DA	5-14-52 1-22-46	NOTS		Tc	1.0	87.92
	136	12		Ds	Tc .3	2,286.9	87.2

T. 26 S., R. 39 E.--Continued

12FL	GS	6-15-60	NOTS		1960	82.2	R 6	N N	Ss	Ls	0	2,276	80.1	
12GL	GS DA-25 DGT-61	10-21-59	NOTS			137.0	Dr 12	N N	Un	Tc	-.6	2,277.0	81.14	L,W W
12ML	GS DA-26 R-32 DGT-62	10-21-59	NOTS	Charles Biggen	200							2,301.0		
13DL	GS DGT-70	12-16-52	NOTS			115	12		Ds	Tc	1.0	2,305	109	
13EL	GS DA	12-16-52	NOTS			115	12		Ds	Tc	3.9	2,310.8	107.9	
13PL	GS R-101 DGT-72	10-22-59	NOTS					N N	Ds			2,335.7		W
14EL	GS DA-32 DGT-69	10-22-59	NOTS			188.5	10	N N		Tc	2.0			
						242.3	Dr 10	N N	Un	Tc	2.4	2,334.2	132.90	C,W
15QL	GS DGT-68	1-13-60	NOTS			272.9	1 $\frac{1}{4}$	N N	Un	Tc	2.4	2,365.6	164.65	W
17FL	GS DA R-19	5-14-52 2-1-46 1921	NOTS			278	D	N N		Tc	0			
						147.5	12		Ds	Tc	.4	2,361.1	149.9	151
18RL	GS	12-11-59			1959	400	R 12	N N	Un	Tc	1.0	2,390	180.42	
19KL	GS	11-9-60	NOTS (well 27)		1960	803	Rg 16	N N	Un	Tap	1.1	2,406.2	205.82	C,L

Source of data and other numbers		Date of observation	Owner or user	Year completed	Type, Pump diam-type (feet)	Altitude of 1st (feet)	Water level
							Other data below 1st (feet)
Well data							
USGS number							

T. 26 S., R. 39 E. --Continued

26/39-19P1	GS	12-16-59	NOTS (well 15)	1944	446	Cg 16	T 200	Ps		2,416.0	(e)	C, L, W
19Q1	GS	11- 9-60	NOTS (well 12)	1945	367.5	Cg 16	T 200	Ps	Hpb	2.0	2,418.3	c225.60
20F1	GS	1-12-60	R. E. Clodt	1954	333	Dr 12	T D	Ir		2,390	191	C, L, W
20Q1	GS	11- 9-60	NOTS		490.0	Dr 12	N N	Un	Tcc	1.4	2,421.8	218.90 210.6 W
	DA-18	2-20-46			505	12						
21M1	GS	12-16-59	California Electric Power Co.	1920	285	Dr 10	T 3	Dm	Wa	2,420.7	220	C
	DA	1946			295						211	
0	0	6- 5-45									213	
9	0	9-13-38										
52												
23E1	GS	11- 9-60	NOTS		190.0	Dr 12	N N	Un	Tcc	1.93	2,372.3	172.26 W
	DA-33											
	R-20											
	DGT-80	1-27-20	R. F. Berry		307+	12	N N		Tc	2.0		
23J1	GS	11- 9-60	NOTS (well 28)	1960	800	Rg 16	N N	Un	Tap	2.25	2,361.2	L, C
24E1	GS	5-14-52	NOTS		148.2	Dr 14	N N	Ds	Tc	2.6	2,355.8	Dry 152.0 149.5
	DA-34	1-17-46			171	14						
	R-102	1921										
	DGT-81	1920										
	CCC-29	1912	Dr. Johnson		310	14	N N	Un				

24KL	GS	9-17-59	NOTS (well 13)	1944	323.1	Cg 16	N N	Un	Tc	2.79	2,347.4	154.61	C, L, W	
24ML	GS	11- 9-60	NOTS (well 29)	1960	800	RG 16	N N	Un	Tap	1.8	2,366.5	172.87	C, L	
24P1	GS	10-21-59	NOTS (well 18A)	1958	825.0	Rg 16	T 250	Ps	Tc	1.0	2,355	(e) 163.9	C, L	
24Q1	GS	10-21-59	NOTS (well 17)	1944	361	Cg 16	T 50	Ps	Hpb	2.5	2,350.4	157.58	C, L, W	
24R1	GS	11- 9-60	NOTS (well 11)	1944	480	Cg 16	T 25	Ps	Hpb	2.0	2,344.9	151.53	C, L, W	
25C1	GS	5-21-52	A. Anderson	1940	210	Dr 8	L E	Dm	Na		2,360.9	147	C	
25D1	GS	8- 4-60	American Potash & Chemical Co.	1920	272	Dr 24	N N	Un	Tcc	1.6	2,372.9	d182.00	W	
25D2	GS	8- 4-60	American Potash & Chemical Co.	1912	310	24	L		Dr 24	N N	Un	2,368.0	d177.70	L, W
	GS	8- 4-60	American Potash & Chemical Co.	1942	300	Rg 14	T 25	In	Tc	1.0				
25E1	GS	8- 4-60	American Potash & Chemical Co.	1950	387	C 14	T 25	In	Tc	1.0	2,372.2	a186.98	C, L, W	
25Q1	GS	3-16-54			Dr 12	N N	Un	Tc	0	2,378.8	193.5			
	GS	4- 9-53									185.08			
	R-8	1920									170			
26C1	GS	8- 4-60	Martin	1950	249	Dr 10	Ts 3/4	Dm	Tc	0	2,394.9	c198.80	W	
26C2	GS	8- 4-60	Leo Blowers	1955	275	Dr 9	Ts 3/4	Dm	Tap	1.5	2,395	200.00		
26D1	GS	10-10-56			213	Dr 14		Dm	Tc	-1.0	2,400.9	194.12	W	
26E1	DGT-92 CCC-30	1920 1912	H. E. Joos John Joos		393	16	L							
	GS	8- 4-60	F.M. Tatum, Jr.	1951	250	Dr 8	Ts E	Dm	Tc	.2	2,402.3	199.85	W	
26F1	GS	8- 4-60	Lonnie Dinwitte	1957	250	Dr 6	L W	Un				2,400		

See footnotes at end of table.

USGS number	Source of data and other numbers	Date of observa- tion	Owner or user	Well data				Measuring point (feet)	Altitude of 1st (feet)	Level below 1st (feet)	Water level	
				Year com- pleted:	Depth ("feet")	Type of pump	Use					
26/39-28B1	GS	8- 9-56	A. Anderson	1954	300	C 8	L	Dm	Tc	1.0	2,430	196.10
28C1	GS GS	8- 4-60 9-19-57	C. L. Davis	1957	278	C 3	Ts 10	Dm	Tap	1.0	2,425	c223.60 215.18
28C2	GS GS GS	8- 4-60 12-18-58 12-19-57	R. J. Springer	1957	364	C 12	T 40	Ir	Tap	1.0	2,425	220.14 210.59 216.25
29G1	GS	5-20-52	G. F. Walhizer	1920	427	13	L	Ir	Ds	2,435		
30C1	GS	11- 9-60	NOTS (Well 9)	1944	370	C 16	N N	Un	Hpb	1.7	2,427.1	231 227.39 L, M
30F1	GS GS GS	12-16-59 12-19-50 9-17-54	NOTS (Well 16)	1944	622	C 16	T 200	Ps	Ma	1.5	2,433.5	220 222.38 220
30G1	GS DA DGT-89 CCC-31 R-81	5-20-52 2-20-46 1920 1912	City of Inyokern Inyokern Co.	300	12	T 7½	Un	Hpb	- .2	2,428.4	(e) 215.7	
30J1	GS GS DA	4- 2-53 5-22 52 12-53 1946	City of Inyokern	1945	430	C 16	T 30	Ps	Tc	.4	2,441.1	235.12 229.43 C, L
31M1								DS	DS	Tc	1.5	2,495 Dry
DGT-91 R-79			Mrs. C. J. Walhizer	293		N N	DS					

T. 26 S., R. 39 E.-Continued

T. 26 S., R. 40 E.

26/40- 1A1	GS R-40	10- 2-60	NOTS		15.2 Dr 5	N N	Ob	Tc	.6	2,153.5	9.80	C, W
1A2	GS	11- 9-60	NOTS	1954	197.5 Dr 6	N N	Ob	Tc	1.7	2,157.6	+1.70	C, L, W
1A3	GS	11- 9-60	NOTS	1954	18.5 A 1 $\frac{1}{4}$	N N	Ob	Tc	1.9	2,157.6	7.20	C, L, W
1J1	GS	11- 9-60	NOTS	1953	18.3 A 1 $\frac{1}{4}$	N N	Ob	Tc	1.7	2,161.8	4.08	C, L, W
1P1	GS DGT-53	12-17-52 1-30-20	NOTS		4		Ds	T	2.2	2,165	2.9	
1Q1	GS	11- 9-60	NOTS	1956	21.8 R 2	N N	Ob	Tc	2.0	2,161.6	2.25	W
1Q2	GS	11- 9-60	NOTS	1956	21.6 R 2	N N	Ob	Tc	2.3	2,159.7	3.64	W
5	GS R-37 DGT-52	5-13-52 1921 1920	Smalles		10 D		Ds	Ds		2,184.5	Dry 13	
4E1	GS R-44	5-13-52 1921	NOTS				Ds			2,185	14.5	
4F1	GS	6- 8-60	NOTS	1960	19.3 R 6	N N	Ss	Ls	0	2,163	6.4	
4G1	GS	6- 9-60	NOTS	1960	13.8 R 6	N N	Ss	Ls	0	2,165	8.2	
4H1	GS	12-16-52	NOTS Parks		116		Ds			2,195	18	
4N2	GS DGT-51	12-16-52 1920	NOTS				Ds	Ds		2,195	Dry	
4R1	GS	6- 8-60	NOTS	1960	33.4 R 6	N N	Ss	Ls	0	2,186	13.1	

See footnotes at end of table.

Source of data and other numbers	Date of observation	Owner or user	Well data	Measuring: point of 1st (feet);	Altitude: of 1st (feet);	Water level (feet);
USGS number	Year com- pleted:	Type, Pump Depth : diam-type (feet); eter: and Use : (in.) power:	Year Depth : diam-type (feet); eter: and Use : (in.) power:	point of 1st (feet);	Altitude: of 1st (feet);	Water level (feet);
26/40- 5FL	GS DA-42	10-21-59 NOTS	24.6 Dr 6 N N Un Tc 0.9 2,196.8	22.73	C, W	
5P1	GS	10-21-59 NOTS (well 7)	89.3 C 16 T 15 R Tap 1.55 2,206.1	30.70	C, L, W	
5P2	GS DA DGT-48	7-18-52 1-31-46 1-29-20	27.0 D 72 Ds 34.0 29.2	2,207.7	Dry 31.2	
5P3	GS DA-41	9- 9-52 1-31-46	27.5 Dr 12 Ds 27.5	2,208.3		
5Q1	GS R-43 DGT-49	9- 9-52 1921 1-29-20 Mrs. T.H. Toombs	Ds 86 12 Ls 0 Tc .4 2,231.8	25.7 2,205	25.7 31.5 31.7	
6E1	GS DA-2L R-42	10-21-59 NOTS	45.0 D 48 N N Un Tc .4 2,231.8	42.10	W	
6M1	GS	10-21-59 NOTS	85.0 Dr 22 N N Un Tc 0 2,249.8	55.48	L, W	
7E1	GS DA R-33 DGT-64	5-12-52 1-22-46 1921 1920	86.0 Dr 14 Un Tc 1.2 2,271.1	81.38	C, L 74.8 75 80	
7FL	GS DA-40 DGT-63	10-21-59 NOTS C. E. Smith	160 14 L Tr 76.2 Dr 9 L N Un Tc -.2 2,264.8	75.9	W	

T. 26 S., R. 40 E.--Continued

C. E. Smith

7N1	GS DA-46	5-12-53 1-19-46	NOTS	82.5 Dr 1 $\frac{1}{4}$ 137	Ds	Tc	-1	2,283.8	Dry 88.1
8A1	GS DGT-65 CCC-26	7-18-52 1-29-20 1912	M. J. Moore M. J. Moor	208 208	N N Dr G	Tc	0	2,205	31.0 32.2
8H1	GS DA-43 DGT-76	9-17-58	NOTS	185	Dr 12 N N	Tc	.4	2,262.8	76.27 L,W
8Q1	GS DA-h4 R-25	1920	G. F. Guy	210					
9FL	GS R-34	7-18-52 1-30-46 1921	NOTS	56.9 83	D 6 $\frac{1}{4}$ N N	Ds Un	Tc	.6	2,254.7 70. $\frac{1}{4}$ 69
9G1	GS R-35 DGT-66	5-13-52 1920	NOTS J. B. Baker	27.3 167	D 60 12	Ds		2,209.5 36 32	Dry 36 32
10EL	GS DA-39 R-36 DGT-67	5-13-52 2-4-46 1921	NOTS J. B. Brink	11.6 176	D 40	Ds	Tc	-2	2,199.2 28.2 28 24
10F2	GS	6- 8-60	NOTS	143	12 C	Tc	-2.0		
10F1	GS	10-21-59	NOTS	1960	51.8 R 6 N N	Ss	Ls	0	2,193 39.4
10L1	GS	6- 8-60	NOTS	1953	38.9 A 1 $\frac{1}{4}$ N N	Ob	Tc	1.8	2,188.8 18.33
10M1	GS DA-38 R-27 DGT-78	10-22-59	NOTS G. W. Roe	1960	39.8 R 6 N N	Ss	Ls	0	2,197 21.5
				13 $\frac{1}{4}$ .2 Dr 12 N N	Un	Tcc	.42	2,214.6	39.01 C, L, W
				230	12 N N	Tc	1.6		

Source of d.t.a. and other numbers	Date of observa- tion	Owner or user	Well data	Measuring point of 1sd (feet)	Altitude of 1sd (feet)	Water level (feet)
USGS number	com- pleted	Year com- pleted	Type, Pump Depth : diam-type (feet) : eter: and Use : (in.) : power:	point of 1sd (feet)	Depth below 1sd (feet)	Other data

T. 26 S., R. 40 E.--Continued

26/40-10Q1	GS	6- 8-60	NOTS	1960	32.3 R 6 N N	Ss ls 0 2,201 24.4
11A1	GS	10-22-59	NOTS	1953	5.4 D 1 $\frac{1}{4}$ N N	Ds 2,160 C,L,W
11J1	GS	11- 9-60	NOTS	1953	18.3 A 1 $\frac{1}{4}$ N N	Ob Tc 3.5 2,174.0 4.50 C,L,W
11M1	GS A-28	5-13-52 1921	NOTS	10	D	Ds 2,192.0 20.0
12A1	GS	11- 9-60	NOTS	1956	21.4 R 2 N N	Ob Tc 2.2 2,167.8 4.17 W
12G1	GS	11- 9-60	NOTS	1956	22.3 R 2 N N	Ob Tc 1.4 2,170.4 6.63 W
12J1	GS R-38 DGT-54	5-13-52 1921 1-30-20	NOTS		Ds	2,180. 3.0
					T	Tc 2.5 3.2
12Q1	GS	11- 9-60	NOTS	1956	21.8 R 2 N N	Ob Tc 2.0 2,175.7 1.63 W
12R1	GS	11- 9-60	NOTS	1956	20.9 R 2 N N	Ob Tc 2.0 2,181.5 1.22 W
13C1	GS	11- 9-60	NOTS	1956	21.5 R 2 N N	Ob Tc 1.9 2,189.1 7.28 W
13D1	GS DGT-56	12-13-52 1-30-20	NOTS	9.0 Dr 6 10	Ds T	2,180. Dry
13M1	GS	11- 9-60	NOTS	1956	22.2 R 2 N N	Ob Tc 2.5 2,196.2 11.80 W
14H1	GS	11- 9-60	NOTS	1956	18.0 R 2 N N	Ob Tc 2.1 2,195.4 10.35 W

14M1	GS	6- 8-60	NOTS	1960	24.3	R 6	N N	Ss	1s	0	2,210	24.2
14P1	GS	6- 8-60	NOTS	1960	9.0	R 6	N N	Ss	1s	0	2,202	8.9
15E1	GS DA-37 R-29	11- 9-60	NOTS	110.1	Dr 12	N N	Ob	Tc	-1	2,223.1	46.62	C,W
DGT-77		1920	G. W. Roe	350	12						45.18	C,W
15E2	GS DA-36	11- 9-60	NOTS	197.8	Dr 14	N N	Ob	Tc	0	2,226.1		
15H1	GS	6- 8-60	NOTS	27.4	R 6	N N	Ss	1s	0	2,205	25.1	
15N1	GS DA-35 R-30	8- 4-60	NOTS	225	Dr 12	N N	Un	Tc	1.2	2,241.1	56.60	W
16B1	GS R-26	12-19-52	NOTS 1921					Ds		2,225		50.0
17E1	GS R-24	12-19-52	NOTS 1921	69.0	Dr 12	N N	Ds			2,276.2	Dry	79
17N1	GS R-100	11- 9-60	NOTS	178.1	Dr 13	N N	Ob	Tc	1.7	2,293.0	100.91	C,W
18E1	GS DGT-73	10-21-59	NOTS 1920	119.4	Dr 12	N N	Un	Tcc	.02	2,297.0	98.11	L,W
18E2	GS R-23	12-18-52	NOTS 1921	90.5	D 60	T	Ds			2,295	Dry	L
DGT-74		1920	V. Hetzel	750	12					90.0		
18N1	GS DA-43 R-21	10-21-59	NOTS	554.7	Dr 7	N N	Un	Tc	0	2,316.1	121.10	C,W

Source of data and other numbers	Date of observa- tion	Owner or user	Year com- pleted:	Type, Pump diam- (feet):	Depth (feet):	Power: (in.):power:	Well data	Measuring point of 1sd (feet):	Altitude of 1sd (feet):	Water level below 1sd (feet):
USGS number										

T. 26 S., R. 40 E.--Continued

26/40-19N1	GS DA-45 DGT-82 CCC-34	8- 4-60	NOTS (well 8)		306	Dr 14 T 30 Ps	Bpb	2.0	2,337.7	147.36 W
19P1	GS	8- 4-60	NOTS (well 18)	1944	261.0	C 16 T 25 Ps	Hpb	2.3	2,336.0	145.40 C,L,W
19Q1	GS	9- 8-60	NOTS	1960	648	N N N N	Ds	2,330		L
20G1	GS DGT-84	8- 4-60	NOTS Fritz	112	96.7	Dr 14 N N	Unc	0	2,287.6	90.60 L,W
20M1	GS DA-55 DGT-83	11- 9-60	NOTS (well 5)	1920	190.1	Dr 14 N N	Unc	1.8	2,311.9	122.76 C,W
21K1	GS GS GS DA DGT-85	10-22-53 4- 3-53 5-12-52 1-25-46 1920	NOTS Wire		T		Ds		2,266.0	78.63 80.32 73.5
22N1	GS DGT-86 CCC-36	11- 8-60	NOTS (well 6)		107	Dr 22	Tcc	0		
22P1	GS	11- 9-60	NOTS	1954	203.2	Dr 12 N N	Ob	Tcc 1.0	2,261.4	71.74 C,W
						Dr 12 N N	Un			
						f830.0 Dr 8 N N	Ob	Tcc 1.69	2,258.7	68.98 C,L,W

22RL	GS R-12 DGT-87	12-16-52 1921 1-13-20	NOTS			DS		2,250	56.5 56.4
23BL	GS	6- 8-60	NOTS	1960	21.7	36 L W	Tcc 0		21.5
23CL	GS	11- 9-60	NOTS	1953	40.2	A 1 $\frac{1}{4}$ N N	Ob	2.0	2,213.8
23ML	GS	6- 8-60	NOTS	1960	28.8	R 6 N N	SS	0	22.39 C,L,W
23ML	GS R-13 DGT-38	12-16-52 1921 1-13-20	NOTS			DS		2,250	47.0
24CL	GS	11- 9-60	NOTS	1953	45.4	A 1 $\frac{1}{4}$ N N	Ob	2.1	2,212.0
24RL	GS	9-13-56	NOTS	1954	Dr 6	N N	DS	~	2,260.4
26BL	GS	9-20-57	NOTS	1953	A 1 $\frac{1}{4}$	N N	DS		2,229.4
26RL	GS	9-20-57	NOTS	1953	A 1 $\frac{1}{4}$	N N	DS		2,229.4
27ML	GS R-10	5-19-52 1921	NOTS			DS		2,280	L
27ML	GS	11- 9-60	NOTS (well 1)		248.2	Dr 12 N N	Ob	.5	108.97 W
28AL	GS	1-21-60 1943	P & H Garage	1948	308	Dr 10 N N	Un	2,270	72
28A2	GS	9-17-58	Pampalardo's Restaurant	117.5	Dr 8	N N	Un	2.2	2,269.8
28A3	GS	8- 3-60	Pampalardo's Restaurant	1945	Dr 8	N N	Un	1.8	2,269.4
28CL	GS	1-21-60	Ridgecrest County Water District	147	Dr 10		Un	Na.	2,278.9 C,W

see footnotes at end of table.

Source of data and Other numbers	Date of observa- tion	Owner or user	Year com- pleted	Type, Pump diam-type (feet):	Depth (feet):	Use power: (in.)	Measuring point (feet):	Altitude of lsd (feet):	Water level (feet):
USGS number									

T. 26 S., R. 140 E.--Continued

26/40-28D1	GS DT-95	5-21-52					Ds	2,290	75 L
28E1	GS	8-3-60	Ridgecrest County Water District		Dr 12 N N	Un	Tap	1.0	2,292.6
28G1	GS	1-20-60	Ridgecrest County Water District		194.5 Dr 12 N N	Un	Tap	.25	2,281.1
28H1	GS	8-3-50	Ridgecrest County Water District		Dr 14 T 20	Un	Hpb	.5	2,280.6
	GS	1-20-60							
	GS	4-3-53							
	GS	12-11-52							
28H2	GS	9-12-56	China Lake Trailer Park	1952	60	10 N N	Ds	2,280.1	Dry W
28H3	GS	9-13-57	China Lake Trailer Park	1952			Ds	2,270.6	W
28H4	GS GS	8-3-60 1-21-60	Ridgecrest County Water District		200	Dr 10 N N	Un	.5	2,272
28J1	GS	11-3-60	Dreamond Medical Center		Dr 14 T 30	Ps	Bhc	.7	2,288.9
28M1	GS DT-96 CCC-37	12-16-52					Ds	2,310	
29C1	GS 0	8-3-60 1950	C. D. Williamson D. W. Mack	1950	250	Dr 8 J 1	Dm	.5	2,310 . 120.63 118



USGS number	Source of data	Date of observa- tion	Owner or user	Year com- pleted	Type diam- (feet)	Pump size (in.)	Well data	Measuring point (feet)	Altitude of 1st (feet)	Water level below 1st (feet)	Other data
	and other numbers										
26/40-33NL	GS DGT-97	12-16-52 1920	Robertson		12	T	Ds		2,225	105	
33P1	GS	9-17-58	Ridgecrest County Water District	1930	Dr 14	N N	Ds		2,311.9	Dry	C, W
33P2	GS GS	7-29-60 1-20-60	Ridgecrest County Water District	1937	250	Dr 10	T G	Ps	Hpb 2.0	138.90 137.89	C
33P3	GS	1-21-60	Westend Chemical Co.	1931	Dr 14	T 30	In	Tc	0	139.00	W
34NL	GS	11- 9-60	NOTS (well 19)	1945	232	Cg 16	T 100	Ps	Tc 1.7	2,290.4	111.98
34RL	GS DA-64 R-11 DGT-98	5-19-52 1-18-46 1-13-20	NOTS J. L. Talbot	1921	72.0 78	Dr 12	N N	Ds	Tc .6	2,264.0	Dry 67.4 60 59.6
35NL	GS DGT-99	5-19-52 1920	NOTS J. R. Nichols		180	12	N N	Tcc 0			L
35Q1	GS DA R-16	5-19-52 9-24-46 1921	NOTS		29.2 63	D D	L H	Ds	2,261.5	Dry 55	
36A1	GS	11- 9-60	NOTS				Ds		2,258	70 48	C, L, W
					270.2	Dr 6	N N	Ob	Tc 1.5	2,247.2	58.59

T. 26 S., R. 40 E.--Continued

T. 26 S., R. 41 E.

26/41- 6A1	GS	8-27-59	NOTS	1953	A 1 $\frac{1}{4}$	N N	Ds	Tc	2.3	2,158.2	C, L, W	
7D1	GS	11- 9-60	NOTS	1956	21.2	R 2	N N	Ob	Tc	2.3	2,160.2	1.35 W
7E1	GS	11- 9-60	NOTS	1953	32.4	A 1 $\frac{1}{4}$	N N	Ob	Tc	.75	2,166.5	5.63 C, L, W
7G1	GS	8-27-59	NOTS	1953	31.3	A 1 $\frac{1}{4}$	N N	Ob	Tc	1.6	2,177.0	24.82 C, L, W
7G2	GS	8-27-59	NOTS	1954	49.3	Dr 6	N N	Un	Tc	1.2	2,181.3	36.29 C, L, W
7M1	GS R-39 DGT-55	1953 1921 1-30-20	NOTS		Ds				Ls	2,180 0	13.5 13.3	
G												
<u>T. 26 S., R. 42 E.</u>												
26/42-29J1	GS	6-21-60	Y Kiki Club	30.0	Dr 6	N N	Un	Tc	.5	1,925	18.20 C	
		6- 5-53										
<u>T. 27 S., R. 37 E.</u>												
27/37- 1R1	GS	12-18-59	U.S. Grazing Service	24.0	D 48	L N	Un	Tcc	1.0	3,700	18.38	
1R2	GS	12-18-59	U.S. Grazing Service		D	N N	S			3,700	Flowing	
30J1	GS	5-22-53	U.S. Grazing Service (Horse Canyon well)		D 8	L W	S	Tc	0	3,750	57.55	

Source of data and other numbers				Date of observation	Owner or user	Year completed	Type, pump (feet)	Altitude of 1st point (feet)	Measuring level
USGS number	and other numbers	of data and other numbers	observation	of observation	completeness	(feet)	completeness	below 1st (feet)	Other data (feet)

T. 27 S., R. 38 E.

27/38-1M1	GS	3-17-54		305.6	Dr 12 N N	Un	Tc 3.5	2,639.0	292.34 W
4C1	GS	12-18-59	Captain Beckman	500	R 8 N N	Ds		3,100	Dry
4C2	GS	12-18-59	Captain Beckman	500	C N N	Ds		3,100	Dry
5N1	GS	12-18-59	Captain Beckman	g20	D 60	Dm		3,450	Flowing
7C1	GS	12-18-59	C. C. Miley	1949	91.3 C 16 N N	Un	Tc 0	3,560	65.90
6	7C2	GS	12-18-59	C. C. Miley	1959	49.7 D 2 N N	Un	-4.0	3,500
	8J1	GS	12-18-59	C. C. Miley		90 D 36 L N	Ds		3,210
	8J2	GS	12-18-59	C. C. Miley	1959	100 C 10 N N	Ds		Dry
	28R1	GS	12-9-59 4-3-53	U.S. Grazing Service	300	Dr 6 L W	Un	Tc 0	2,875
									172.64 C
									170.46
									169.8
31D1	GS	12-13-52	Armisteads	1933	Dr	Dm		3,075	C
36F1	GS	5-26-53		73.2	D 72 N N	Un	Tcc 1.0	2,900	68.36



Source of data and other numbers	Date of observa- tion	Owner or user	Well data	Measuring point of 1st use (feet) (in.)	Altitude of 1st use (feet)	Water level below 1st (feet)	Other data
USGS number							

T. 27 S., R. 40 E.--Continued

27/40-1M	GS DA-63 DGT-102	7-25-60 1920	Thunderbird Ranch W. M. Bullock	1920 199 Dr 14 Ts E 14 N N	Tcc 0.5 2,296.3	110.27	C, W
1M1	GS R-7	5-22-52 1921		DS	2,325	93	
1M2	GS R-14	5-22-52 1921		DS	2,325	93	
68	1Q1	GS	7-25-60 Clarence Hart, Sr.	Dr 6 Ts E 200	Un	2,380	(e)
68	2H1	GS GS	7-25-60 Kern County 3-17-54	Dr 8 T 5 1954	Dm Na	2,275	(a) 89.53
	2J1	GS GS	1-21-60 E. Fox 12-11-58	220 C 10 T 10 1958	Ir Hp b Tc 6.0	2,33 2,300	106.36 116.54
	2M1	GS R-6 DGT-103	5-22-52 1921 1920 Early	Dr 150 10 I	DS	2,280	80 80
	3J1	GS GS	7-26-60 R. Reade 11-21-57	1957 R 6 Ts 1/3 S	Tcc 1.0 2,275	82.51 80.65	
	3P1	GS	7-26-60 Shangri La Ranch	107.5 Dr 10 N N 162.3 Dr 12 N N	Un Tc .5 1.3	2,292 2,287.3	82.56 C, W
	3R1	GS	11-9-60 California Division of Highways	Un Tc 1.3	2,287.3	98.44	C, W

4A1	GS GS GS	7-29-60 1-21-60 5- 6-59	Westend Chemical Co. 1959	273	Dr 16 N N Un	Tc 1.0 2,305	d128.65 d126.64 d126.56	L
4A2	GS	5- 6-59	Westend Chemical Co. 1959	Dr N N Ds		2,292		
4B1	GS	1-21-60	Westend Chemical Co. 1946	Cg 14 T 60 In	Tc 1.0 2,302.6	d139.07	L,W	
4B2	GS	7-29-60	Westend Chemical Co. 1940	Cg 14 T 125 In	Bpb 1.5 2,301.8	d132.05	C,L,W	
4C1	GS	7-29-60	Ridgecrest County Water District	375	Bpb 1.5 2,301.8	d132.05	C,L,W	
4C2	GS GS 0	7-29-60 1-20-60 1949	Ridgecrest County Water District	300	Dr 10 T 25 Ps	Hpb 1.6 2,312.5	139.38	W
4D1	GS	9-17-58	C. O. Brown	280	Dr 10 T 30 Ps	Hpb .3 2,315	142.01	
4D2	GS	1-21-60	Ridgecrest County Water District	163	Dr 8 Ts 1½ Dm	Tap .5 2,325.9	147.89	W
4E1	GS	5-26-52	Fox	130	Dr 8 N N Ds		2,329.1	Dry
4F1	GS	1-22-60	Kern County Parks & Recreation Department	162	T 10 Ps			
4L1	GS	1-20-60	Ridgecrest County Water District	1950	Dr 12 T 50 Ps	Ma	2,314.1	C,L,W
4L2	GS GS	7-29-60 1-20-60	Ridgecrest County Water District	252	Dr 8 N N Un	Tc 0	2,315	d146.55 142.03
4L3	GS	11-21-57	Thomas	1957	R 8 Ts 1 Dm	Tap 1.0 2,330	148.70	
4L4	GS	11-21-57	E. A. Parker	220	R 5 Ts 1 Dm	Tcc 1.0 2,330	151.92	
5A1	GS 0	4- 9-59	Westend Chemical Co. 1959	0	Dr N N Ds		2,335	L
				210	N		154	

See footnotes at end of table.

Source of data and other numbers	Date of observa- tion	Owner or user	Year com- pleted:	Type, Pump diam-type (feet):	Depth (feet):	point of lsd (feet):	Measuring point of lsd (feet):	Altitude below lsd (feet):	Water level feet)
USGS number									Other data
									Depth below lsd: (feet)
									Water level: feet)

T. 27 S., R. 40 E.--Continued

27/40- 5BL 0	GS 0	4- 9-59 1959	Westend Chemical Co.	1959	0	Dr 16 N N	Ds	2,340	Dry 172
5BL 0	GS 0	4- 9-59 1959	Westend Chemical Co.	1959	0	Dr	Ds	2,340	164
6EL GS	GS 4- 9-59	8- 4-60 J. W. Turner		1958	280	Dr 8 Ts 1½ L W Dm	Dm	2,430	e240 239.18
7EL GS	GS	7-28-60 Carl McMillan		1960	330	C 8 L 3/4 Dm	Tc 0.4	2,490	290
7GL GS	GS	7-28-60 Harold Gryting		1958	410	R 6 Ts 1½ Dm	Tc -.5	2,465	263.00 C
70 7LL GS	GS	12-11-58 R. W. Faulkner		1958	430	R 6 N N Un	Tc 1.0	2,480	261.60
8AL GS	GS	7-28-60 Rocket Town Water Co.		1950	440	Dr 8 T 30 Ps	Tap .5	2,344.7	a157.70 C, W
8DL GS R-4 GS DA-62 R-5	GS 1921 4- 9-53 2-19-46 1921	1953				Ds	2,397		
9BL GS	GS	7-28-60 Udell Schmitz			138 117.6 Dr 12	Ds	2,316.0	Dry 122.4 Dry	
9LL GS	GS	7-28-60 Cornelius			254	Dr 8 Ts 1 Dm	Tc .5	2,345	153.10 W
9L2 GS	GS	3-16-54 Clark Smith		1955	250	T 10 Ir	Na	2,350	
9L3 GS GS GS	GS 10-14-55 6-13-55	9-17-58			264	C 8 L 1 Dm	Tap .5	2,355	167.85 166.10 165.61

9L4	GS	9-17-60	James Evans		Dm		(h)
9P1	GS	7-28-60	Desert Sand Water Coop	1948	230	Dr 12 T 20 Ps	Hpb .88 2,368.0 183.26 C,W
10A1	GS	1-22-60	E. W. Anthony	1951	150	Dr 8 Ts E Dm	Tcc .3 2,299.4 113.14 C,W
10A2	GS	7-28-60	Radio Station KTKS	1949	126	Dr 10 Ts E Dm	Tcc .8 2,287 103.23 C
10A3	GS	7-27-60	George Perrige 8-30-55	1955	R 6 Ts 3/4 Dm	Tcc -1.1 2,287 101.44	
10A4	GS	7-27-60	Lovman Moors 8-30-55	1955	R 6 J 1 Dm	Tcc .35 2,295 101.29	
10A5	GS	7-27-60	George Perrige 12-11-58	1958	152 R 8 Ts 1 Dm	Tap .55 2,300 113.25	
10A6	GS	7-27-60	Norman Read	1957	152 Dr 8 Ts 1 Dm	2,300 109.65	
10B1	GS	7-26-60	Shangri La Ranch		170.8 Dr 20 N N Un	Tc 1.02 2,292.5 108.66 L,W	
10C1	GS	1-22-60	Shangri La Ranch		250 Dr 24 T 100 Tr	Bpb -.2 2,296.4 110.16 C,W	
10D1	GS	5-22-52	Shangri La Ranch		DS	Hpb .1 2,301.3 Dry	
DA-51	GS	12-20-50					111.82
1-19-46							107.9
DCT-105		1920	Mrs. G. W. Bowman				95
10G1	GS	7-26-60	Shangri La Ranch	1957	184.5 R 12 T 50 Ir	Na 2,310	122.95
	GS	1-22-60			Bhc 1.3		122.03
	GS	7- 2-57					
10H1	GS	7-27-60	M. E. Read 8-30-55	1955	R 6 Ts 5 Dm	Tcc .5 2,300	123.70 C
10H2	GS	7-26-60	Hillcrest Estates		Dr 8 Ts E Ps	Tcc 1.0 2,330	127.35
							142.80

USGS number	Source of data and other numbers	Date of observa- tion	Owner or user	Well data			Measuring point	Altitude of 1st (feet)	Water Level	Other data
				Year com- pleted	Type, Pump and (feet)	Depth : diam-type (feet)	Use (in.) : power			

T. 27 S., R. 40 E.--Continued

10R1	GS	7-26-60	W. H. Stark	1958	262.5	R 6	N N	Un	Tc	.43	2,380	196.43
	GS	1-22-60										195.93
	GS	12-11-58										195.54
10R2	GS	7-28-60	B. Cavalliere	1958	206	Dr 6	Ts 1	S		2,360		174
11A1	GS	11-21-57	C. W. Packard	1956	216	R 10	T 10	Dm	Bhc	1.0	2,320	146.19
11B1	GS	5-21-52	C. Schwab	1950	160	Dr 10	L G	Dm	Na		2,335	
11C1	GS	7-26-60	R. Miller	1941	126	Dr 8	Ts E	Dm	Tcc	.3	2,301.5	113.71
11C2	GS	7-26-60	W. Urban		140	Dr 12	Ts E	Dm	Tcc	.82	2,307.2	117.08
11D1	GS	5-21-52	T. Towles	1947	120	Dr 10	T 2	Dm	Na		2,298.1	
11D2	GS	7-26-60	Mrs. Purdy	1945	159	Dr 8	Ts E	Dm	Tcc	1.1	2,300	113.15
	GS	4- 3-53										116.6
	GS	5-21-52										116.29
11D3	GS	8-10-52	E. M. Stone	1950	165	R 6	Ts 1½	Dm		2,315		123 C, L
11D4	GS	7-26-60	D. VanNoy	1956	175	R 6	Ts 1	Dm	Tcc	.5	2,320	135.95
11H1	GS	12-11-58	A. R. Guercia	1958	258	R 6	Ts 1½	Dm		2,355		175
11H2	GS	7-26-60	Horton & Williams	1958		R 8	Ts E	Dm	Tcc	1.0	2,370	195.62
	GS	12-11-58										194.61
12L1	GS	7-25-60	T. L. Herling	1959	300	R 6	L N	Dm		2,420		3250
14M1	GS	7-28-60	D. Crawford	1958	40.0	R 12	N N	Ds		2,500		Dry
15A1	GS	7-26-60	Fox	1960	C 8	N N	Un			2,385		(k)

see footnotes at end of table.

Source of data and other numbers	Date of observa- tion	Owner or user	Year com- pleted:	Type, diam- (feet)	Pump type & size: (in.)	Well data	Measuring point of lsd (feet)	Altitude of lsd (feet)	Water level (feet)	Other data
USGS number										

T. 27 S., R. 40 E.--Continued

27/40-151L	GS GS	7-27-60 12-16-59	A. Christman & others	1959	277.5	C 10 L G Dm	Tc	1.75 2,470	243.06	
17G1	GS GS	7-28-60 4-8-59	Indian Highland Park Water Coop	1959	Dr 12 Ts 7 $\frac{1}{2}$	Ps	Tcc	1.0 2,440	c238.65 237.66	
18D1	GS	7-28-60	Fuller		210.0 Dr 8	N N Ds		2,535	Dry	
19D1	GS	7-28-60	Gail Smith	1957	m295	8 N N Ds		2,640	Dry	
26R1	GS	12-10-59			41.0 D 72	N N Un	Tcc	.5 3,240	17.42	
7- 30Q1	GS	7-29-60			103.0 Dr 8	N N Ds		2,885	Dry	

T. 27 S., R. 41 E.

27/41- 6F1	GS DGT-100	12-17-52 1920	Engleman		Ds		2,390	Dry		

T. 28 S., R. 36 E.

28/36-32H1	GS	1-13-60	U.S. Grazing Service 1933 (Dove well)		L W S	Tcc 0	4,600	a152.44		
33J1	GS	1-13-60	Virginia Mill Site	4.6	D 60 N N Un	Tc 0	4,250	3.05		

T. 28 S., R. 37 E.

28/37-13FL GS 12-13-52 Hart's Place 1937 400 Dr 10 L G Dm 3,080 280 C

T. 28 S., R. 38 E.

28/38-18FL GS 0	1-13-60 2-20-54	Estes & Skinner	1954	600 R 16 N N Un	Tap .2 3,025	211.04
18FL GS	12-15-59 12-13-52	U.S. Grazing Service 1933 (Blackhawk well)	284.0 Dr 6 L W S	Bhc 1.35 3,025	199.88 209.9 C	
33NL GS	1-13-60 12-13-52	U.S. Grazing Service 1933 (Last Chance well)	Dr 6 L W S	Tc -3.0 3,450	90.69 91.02	

75

T. 28 S., R. 39 E.

28/39-17HL GS	12- 9-59	U.S. Grazing Service 1933	N N S	3,475 Flowing
17HL GS	12- 9-59		6.8 D 30 N N S	Tc -3.0 3,450 4.88

T. 28 S., R. 40 E.

28/40- 4CL GS	12- 8-52	R. Hudson	Dr L W Dm	Tap 1.5 3,080 113.9
17QL GS	5-21-53	H. W. C. Jacobs	41.7 D 31 Dm	Tcc 1.4 3,550 39.45
18QL GS	5-21-53	H. W. C. Jacobs	34.5 D 60 Un	Tcc .4 3,327 29.09
19HL GS	5-21-53	O. F. Rinaldi	1913 32 D L W S	Tcc .3 3,497 31.1
22LL GS	10-27-60	Southern Pacific Co.	96.5 D 36 L W Dm	Tc 1.0 3,425 88.96
22QL GS	4- 1-60	E. B. Anderson	L W Dm	3,350

See footnotes at end of table.

C

USGS number	Source of data and other numbers	Date of observa- tion	Owner or user	Well data			Measuring:		
				Year com- pleted	Type, Pump Depth : diam-type (feet) : eter; and :(in.) power;	point of 1sd (feet)	Altitude of 1sd (feet)	Level Depth below 1sd (feet)	Water level
<u>T. 28 S., R. 41 E.</u>									
28/41-15C1	GS	9-29-60		355.0	C 8 N N DS		2,600	Dry	
<u>T. 29 S., R. 36 E.</u>									
29/36- 1A1	GS GS	1-13-60 5-24-53	U.S. Grazing Service (Gold Peak well)	Dr 6	N N Un	Tcc	2.54 3,680	100.29 99.45	
<u>T. 29 S., R. 41 E.</u>									
29/41-22P1 22R1	GS GS DGT-1	10-27-60 12-12-60 10- 5-17	Skilling Well	600+	Dr 10 N N Un	Tc Na	1.0 3,400 3,475	n570	
25F1	GS	12-12-60	Randsburg Steam Well	400	D 144 L E PS			390	
27A1	GS DGT-2	10-27-60 10- 5-17	Mountain Well	420.0	14 N N Un	Tc	4.35 3,270	(p)	
34KL	GS GS DGT	10-27-60 4-28-53 10- 5-17	Squaw Spring Well	380	D 108 L E PS	Dg	3,425	375	C
				127.0	D 72 N N Un	Tc	1.0 3,525	60.02	
				180	L N Un	Tcc	-5.0	38.25 50	

- a. Well being pumped.  
 b. Well destroyed when seismic shot caused the casing to collapse.  
 c. Pumped recently.

- d. Nearby well being pumped.
- e. Obstruction in well.
- f. Well drilled to basement rock at 1,358 ft with pilot hole. Reamed and cased to 830 ft.
- g. Horizontal shaft.
- h. Well in locked enclosure.
- i. Tape smear.
- j. Well being drilled.
- k. Bedrock reported at 280 ft.
- l. Measurement questionable.
- m. Well full of steam but no water-table condition in well.

Table 2.--Records of water levels in wells

Table 2 includes all records of water levels made in wells for which five or more measurements were made; if fewer than five measurements were made, the records are shown in table 1.

Altitudes are given in feet above mean sea level of the land-surface datum at the well. Land-surface datum is a plane of reference which approximates land surface. Altitudes given in whole feet were interpolated from topographic maps. Altitudes given in feet and tenths of feet were determined by spirit leveling or plane table and alidade.

Depths given in feet were reported by owner or taken from drillers' logs; depths given in feet and tenths were measured from land-surface datum by the Geological Survey.

24S/38E-35El. Depth 217.0 ft. Altitude 2,417.8 ft.

Date	Water level	Date	Water level	Date	Water level
1921 Feb. 19, 1946	208.5 209.4	Apr. 7, 1953 Mar. 16, 1954	206.2 211.67	Aug. 25, 1959	207.06

24S/39E-33Nl. Depth 164 ft. Altitude 2,254.5 ft.

Feb. 3, 1920 Feb. 17, 1946	59.5 59.5	Oct. 21, 1952 Mar. 31, 1953	58.89 58.89	Mar. 16, 1954 Aug. 27, 1959	58.86 59.30
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24S/40E-20Jl. Depth 28.3 ft. Altitude 2,203.6 ft.

Dec. 17, 1952 Mar. 30, 1953 May 22 June 24	17.28 16.80 16.24 17.29	Sept. 22, 1953 Oct. 20 Dec. 17	17.51 17.52 17.47	Feb. 10, 1954 Mar. 16 Sept. 2, 1959	17.28 17.14 17.57
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24S/40E-32Hl. Depth 111.5 ft. Altitude 2,178.8 ft.

Aug. 22, 1953 25 Sept. 22	5.00 5.00 5.07	Oct. 20, 1953 Feb. 10, 1954 Mar. 16	5.16 4.24 4.13	Sept. 2, 1959	5.13
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24S/40E-33El. Depth 160.8 ft. Altitude 2,178.0 ft.

Aug. 25, 1953 Sept. 22	+0.62 +.41	Oct. 20, 1953 Feb. 10, 1954	+0.40 +.76	Mar. 16, 1954 Sept. 2, 1959	+0.77 +.91
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24S/40E-33Nl. Depth 15.9 ft. Altitude 2,175.8 ft.

May 11, 1953 July 6 Aug. 22	3.22 3.49 3.77	Sept. 22, 1953 Oct. 20 Feb. 10, 1954	3.87 3.91 3.00	Mar. 16, 1954 Sept. 2, 1959	3.05 4.05
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24S/40E-34El. Depth 21.0 ft. Altitude 2,176.7 ft.

May 11, 1953 21 23 June 23 July 6	4.17 4.17 4.17 4.24 4.35	July 8, 1953 Sept. 22 Oct. 20 Dec. 17	4.37 4.86 4.95 4.89	Jan. 19, 1954 Mar. 16 Sept. 2, 1959	4.78 4.20 4.52
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24S/40E-35Jl. Depth 7.0 ft. Altitude 2,170 ft.

Date	Water level	Date	Water level	Date	Water level
June 29, 1953	0.40	Oct. 20, 1953	2.74	Feb. 8, 1954	+0.28
Aug. 20	2.84	Dec. 13	1.46	Mar. 16	.18
Sept. 22	3.21	Jan. 15, 1954	.89	Sept. 2, 1959	3.40

24S/40E-35Ql. Altitude 2,173 ft.

June 28, 1953	2.56	Sept. 22, 1953	2.86	Dec. 13, 1953	4.2
Aug. 20	2.15	Oct. 20	3.28	Feb. 8, 1954	Destroyed

24S/40E-36Ml. Depth 7.5 ft. Altitude 2,174.4 ft.

Mar. 30, 1953	3.90	Oct. 20, 1953	3.99	Mar. 16, 1954	4.10
Aug. 20	3.96	Jan. 15, 1954	4.01	Sept. 2, 1959	4.98
Sept. 22	4.14	Feb. 8	3.97		

25S/38E-13Dl. Depth 216.0 ft. Altitude 2,351.2 ft.

Feb. 6, 1946	146.1	Mar. 16, 1954	144.99	Dec. 10, 1959	146.54
Apr. 7, 1953	143.98	May 6, 1955	145.16		

25S/38E-23G1. Depth 259.0 ft. Altitude 2,412.0 ft.

1921	203.5	Apr. 7, 1953	202.22	Dec. 11, 1959	205.25
Feb. 15, 1946	202.6	Mar. 16, 1954	202.39		

25S/38E-24Cl. Depth 135.0 ft. Altitude 2,329.2 ft.

1921	123	Apr. 29, 1953	122.76	Mar. 16, 1954	122.78
Feb. 6, 1946	123.5	Dec. 12	122.78	Nov. 19, 1959	124.61
Apr. 7, 1953	122.72	Jan. 19, 1954	122.72		

25S/38E-24Pl. Depth 161.7 ft. Altitude 2,318.1 ft.

Feb. 6, 1946	111.6	Mar. 16, 1954	111.29	Sept. 19, 1957	112.44
Dec. 16, 1952	111.14	Oct. 14, 1955	111.72	Sept. 18, 1958	112.99
Mar. 31, 1953	111.24	Aug. 9, 1956	112.02		

25S/38E-25L1. Depth 222.2 ft. Altitude 2,329.2 ft.

Date	Water level	Date	Water level	Date	Water level
June 6, 1952	a119.31	Jan. 20, 1954	119.39	Sept. 19, 1957	a120.99
Sept. 8	119.60	Mar. 16	119.43	Sept. 18, 1958	a119.43
Mar. 31, 1953	a119.95	May 6, 1955	120.01	Dec. 11, 1959	a123.78
June 23	a121.01	Oct. 14	120.35	11	123.80
Oct. 20	119.73	Aug. 9, 1956	a121.15		

25S/38E-35B1. Depth 288.7 ft. Altitude 2,402.8 ft.

1920	185	Oct. 23, 1953	185.69	Dec. 11, 1959	188.90
July 17, 1952	185.28	Jan. 20, 1954	185.62		
Mar. 31, 1953	184.59	Mar. 16	185.56		

25S/39E-2E1. Depth 210.5 ft. Altitude 2,227.4 ft.

1912	37.5	Mar. 31, 1953	37.33	June 22, 1954	37.25
Feb. 3, 1920	36.5	June 24	37.30	July 6, 1955	37.23
1921	37	Aug. 17	37.30	Aug. 8, 1956	37.35
Feb. 8, 1946	37.1	Oct. 19	37.31	Sept. 20, 1957	37.45
July 16, 1952	36.12	Dec. 14	37.29	Sept. 18, 1958	37.70
Aug. 8	37.39	Jan. 19, 1954	37.23	Aug. 27, 1959	37.58
Sept. 8	37.40	Mar. 16	37.19		

25S/39E-4R1. Depth 200 ft. Altitude 2,252.6 ft.

Oct. 20, 1953	57.45	May 6, 1955	57.3 <sup>4</sup>	Sept. 18, 1958	57.38
Dec. 14	57.40	Oct. 14	57.44	Aug. 27, 1959	57.3 <sup>4</sup>
Mar. 16, 1954	55.31	Aug. 8, 1956	57.47		

25S/39E-7K1. Depth 57.0 ft. Altitude 2,301.7 ft.

1920	99	Mar. 31, 1953	99.15	Oct. 14, 1955	99.1 <sup>4</sup>
1921	98	Dec. 14	99.19	Sept. 20, 1957	99.54
Feb. 8, 1946	100.2	Jan. 19, 1954	99.17	Sept. 18, 1958	99.77
Oct. 21, 1952	99.16	Mar. 16	99.13	Aug. 10, 1959	(b)

25S/39E-9G1. Depth 62.3 ft. Altitude 2,253.7 ft.

1912	61.1	Sept. 9, 1952	58.04	Aug. 10, 1959	61.3
1921	58.5	Mar. 31, 1953	57.99	27	(b)
Feb. 15, 1946	58.8	Mar. 16, 1954	58.02		

See footnotes at end of table.

25S/39E-10Q1. Depth 45.0 ft. Altitude 2,240.0 ft.

Date	Water level	Date	Water level	Date	Water level
1921 Feb. 8, 1946	46 46.2	July 17, 1952 Mar. 31, 1953	45.46 45.44	Mar. 16, 1954 Aug. 27, 1959	45.60 Dry

25S/39E-11N1. Depth 107.0 ft. Altitude 2,228.1 ft.

1921 Feb. 8, 1946	34 36.3	Apr. 7, 1953 Mar. 16, 1954	35.88 34.82	Aug. 27, 1959	35.27
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25S/39E-12N1. Depth 161.9 ft. Altitude 2,211 ft.

1921 July 16, 1952 Apr. 1, 1953	24 24.12 24.24	Oct. 20, 1953 Mar. 16, 1954 June 22	24.38 24.15 24.24	Sept. 1, 1959	24.66
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25S/39E-12R1. Depth 180.5 ft. Altitude 2,200.9 ft.

1912 1921 Apr. 1, 1953 Sept. 21 Oct. 19	16.0 17 17.20 17.33 17.35	Jan. 20, 1954 Mar. 16 Jan. 26, 1955 Mar. 3 May 6	17.40 17.04 17.44 17.22 17.50	Aug. 29, 1955 Oct. 14 Oct. 10, 1956 Sept. 20, 1957 Sept. 18, 1958 Aug. 25, 1959	17.48 17.45 17.40 17.51 17.60 17.68
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25S/39E-12R2. Depth 146.5 ft. Altitude 2,196.1 ft.

Mar. 3, 1955 May 6	14.89 14.33	Oct. 14, 1955 Sept. 20, 1957	14.47 14.62	Aug. 25, 1959	14.95
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25S/39E-13E1. Depth 185.6 ft. Altitude 2,209.9 ft.

1912 Feb. 18, 1946 July 16, 1952	20.0 21.7 22.05	Apr. 1, 1953 Oct. 20 Jan. 20, 1954	22.16 22.19 22.06	Mar. 16, 1954 Sept. 1, 1959	21.98 22.60
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25S/39E-15C1. Depth 150 ft. Altitude 2,240.5 ft.

1920 Feb. 8, 1946	44 46.8	July 17, 1952 Mar. 31, 1953	47.84 47.47	Mar. 16, 1954 Aug. 27, 1959	47.47 50.58
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25S/39E-17D1. Depth 83.0 ft. Altitude 2,271.1 ft.

Date	Water level	Date	Water level	Date	Water level
1921	69.0	Oct. 20, 1952	69.92	Mar. 16, 1954	69.90
Feb. 20, 1946	70.8	Mar. 31, 1953	69.88	Aug. 27, 1959	70.81

25S/39E-17D2. Depth 80.8 ft. Altitude 2,271.1 ft.

Feb. 20, 1946	70.8	Mar. 31, 1953	69.61	Aug. 27, 1959	69.86
Oct. 20, 1952	69.67	Mar. 16, 1954	69.42		

25S/39E-18D1. Depth 108.9 ft. Altitude 2,295.6 ft.

1912	97.0	Nov. 20, 1952	91.73	Mar. 16, 1954	91.74
Feb. 21, 1946	92.6	Mar. 31, 1953	91.72	Aug. 25, 1959	92.84

25S/39E-21D1. Depth 46.7 ft. Altitude 2,235.2 ft.

1921	37.0	Oct. 8, 1952	36.47	Mar. 16, 1954	36.43
Feb. 14, 1946	37.5	Mar. 31, 1953	36.39	Aug. 27, 1959	37.10
July 17, 1952	36.39	June 24	36.44		
Sept. 8	36.45	Oct. 19	36.51		

25S/39E-21P1. Depth 35.8 ft. Altitude 2,226.9 ft.

1920	32	Apr. 1, 1953	30.02	Oct. 23, 1959	30.70
July 17, 1952	29.98	Mar. 16, 1954	30.06		

25S/39E-24D1. Depth 26.7 ft. Altitude 2,209.8 ft.

1912	21.7	Apr. 1, 1953	16.63	Mar. 16, 1954	19.56
1921	20	Oct. 20	19.77	Sept. 1, 1959	20.24
July 7, 1952	19.50	Jan. 20, 1954	19.66		

25S/39E-24I1. Depth 91.3 ft. Altitude 2,203.5 ft.

1920	c24	June 24, 1953	16.81	June 22, 1954	16.82
July 16, 1952	16.71	Oct. 20	16.98	Apr. 6, 1955	16.87
Sept. 9	16.95	Dec. 14	16.91	Sept. 20, 1957	17.23
Oct. 21	17.00	Jan. 20, 1954	16.85	Sept. 18, 1958	17.33
Apr. 1, 1953	16.86	Mar. 16	16.75	Oct. 21, 1959	17.46

See footnotes at end of table.

25S/39E-25D1. Depth 26.5 ft. Altitude 2,201.5 ft.

Date	Water level	Date	Water level	Date	Water level
July 16, 1952	15.13	Dec. 14, 1953	15.34	Oct. 21, 1959	15.84
Apr. 1, 1953	15.21	Mar. 16, 1954	15.15		
Oct. 20	15.40	Oct. 10, 1956	15.58		

25S/39E-26D1. Depth 23.0 ft. Altitude 2,211.5 ft.

1912	20.4	July 16, 1952	21.39	Mar. 16, 1954	20.56
Feb. 6, 1946	21.1	Apr. 1, 1953	20.56	Oct. 23, 1959	21.07

25S/39E-26H1. Depth 302 ft. Altitude 2,202.8 ft.

Apr. 1, 1953	15.23	Aug. 4, 1955	c82.4	Sept. 18, 1958	15.06
Mar. 16, 1954	14.80	29	14.92	Oct. 21, 1959	15.32
July 28, 1955	16.25	Sept. 20, 1957	15.34		

25S/39E-26N1. Altitude 2,220.6 ft.

Feb. 6, 1946	30.0	Apr. 1, 1953	28.05	Oct. 23, 1959	28.56
July 16, 1952	28.04	Mar. 16, 1954	28.03		

25S/39E-27M1. Depth 25 ft. in 1959. Altitude 2,221.5 ft.

1912	25.9	Apr. 1, 1953	26.14	Mar. 16, 1954	26.06
1920	28	Dec. 11	26.12	Oct. 23, 1959	Dry
July 17, 1952	26.20	Jan. 19, 1954	26.06		

25S/39E-28P1. Depth 160.7 ft. Altitude 2,228.9 ft.

1921	30.5	Oct. 19, 1953	30.89	Oct. 14, 1955	31.17
Apr. 26, 1946	31.3	Nov. 24	30.91	Apr. 18, 1956	31.04
Dec. 16, 1952	30.85	Dec. 17	30.88	Oct. 11	31.24
Apr. 1, 1953	30.80	Jan. 19, 1954	30.82	June 26, 1957	31.29
June 2	30.76	Feb. 23	30.82	Sept. 20	31.35
24	30.82	Mar. 16, 1954	30.87	Apr. 8, 1958	31.28
Aug. 1	30.87	June 21	30.93	Sept. 18	31.46
26	30.88	May 6, 1955	30.98	Oct. 23, 1959	31.67
Sept. 22	30.91				

See footnotes at end of table.

25S/39E-28R1. Depth 122.4 ft. Altitude 2,227.9 ft.

Date	Water level	Date	Water level	Date	Water level
1912	30.6	Apr. 1, 1953	31.40	Mar. 16, 1954	31.37
1912	31.0	Dec. 11	31.47	Sept. 18, 1958	31.90
July 17, 1952	30.36	Jan. 19, 1954	31.39	Oct. 23, 1959	32.07

25S/39E-31E1. Depth 164 ft. Altitude 2,283.7 ft.

Feb. 4, 1946	76.4	Oct. 22, 1952	c141.88	Dec. 17, 1959	78.03
June 6, 1952	74.26	Mar. 3, 1953	75.77		
Oct. 22	d83.70	Mar. 16, 1954	75.65		

25S/39E-32R1. Depth 65.5 ft. Altitude 2,266.0 ft.

1921	61	Apr. 7, 1953	61.14	Oct. 22, 1959	63.39
Feb. 5, 1946	61.5	Mar. 16, 1954	61.58		

25S/39E-35N1. Depth 152.0 ft. Altitude 2,253.2 ft.

1921	c103	July 31, 1953	c71.11	Oct. 14, 1955	57.94
July 16, 1952	58.04	Aug. 5	58.08	Oct. 10, 1956	58.98
Apr. 1, 1953	66.83	Oct. 19	57.89	Sept. 20, 1957	58.20
May 21	59.35	Mar. 16, 1954	57.77	Sept. 18, 1958	58.33
July 29	57.98	Apr. 6, 1955	57.88	Oct. 22, 1959	58.45

25S/39E-35N2. Depth 95.0 ft. Altitude 2,244.9 ft.

Apr. 1, 1953	52.75	Mar. 16, 1954	50.41	Sept. 20, 1957	50.79
Oct. 19	50.51	Apr. 6, 1955	50.49	Sept. 18, 1958	50.87
Feb. 3, 1954	50.50	Oct. 10, 1956	51.02	Oct. 22, 1959	51.04

25S/40E-3N1. Depth 7.3 ft. Altitude 2,177.4 ft.

Aug. 25, 1953	3.52	Oct. 20, 1953	3.59	Mar. 16, 1954	3.37
Sept. 22	3.56	Feb. 10, 1954	3.46	Sept. 2, 1959	3.89

25S/40E-8A1. Depth 17.4 ft. Altitude 2,183.2 ft

May 11, 1953	6.60	Aug. 22, 1953	6.80	Mar. 16, 1954	6.63
21	6.62	Sept. 21	6.78	Sept. 2, 1959	7.39
June 24	6.63	Oct. 20	6.80		
July 8	6.62	Feb. 10, 1954	6.70		

See footnotes at end of table.

25S/40E-11K1. Depth 62.3 ft. Altitude 2,166.4 ft.

Date	Water level	Date	Water level	Date	Water level
Dec. 18, 1952	Flowing	June 23, 1953	+3.25	Dec. 17, 1953	+3.02
Mar. 3, 1953	Flowing	28	+3.33	Jan. 19, 1954	+3.26
May 11	Flowing	Sept. 22	+2.99	Mar. 17	+3.45
21	+3.33	Oct. 21	+3.07	Aug. 28, 1959	Flowing
23	+3.23	Nov. 23	+2.98		

25S/40E-12M1. Depth 59.4 ft. Altitude 2,163.7 ft.

Dec. 18, 1952	Flowing	Aug. 20, 1953	+0.48	Jan. 19, 1954	+0.61
Mar. 30, 1953	Flowing	Sept. 22	.38	Mar. 16	+1.28
May 21	.52	Oct. 20	.41	Aug. 28, 1959	+2.02
June 28	.56	Nov. 23	.43		

25S/40E-12M2. Depth 5.0 ft. Altitude 2,162.4 ft.

June 28, 1953	3.21	Oct. 20, 1953	3.87	Mar. 16, 1954	2.30
Aug. 20	3.70	Nov. 23	3.87	Aug. 28, 1959	2.30
Sept. 22	3.8	Feb. 20, 1954	2.23		

25S/40E-12Q1. Depth 14.5 ft. Altitude 2,160.6 ft.

Dec. 18, 1952	4.08	Dec. 12, 1953	4.73	May 13, 1954	3.39
Mar. 30, 1953	3.70	17	4.72	June 21	3.70
Oct. 20	4.70	Jan. 19, 1954	4.60	July 21	4.02
21	4.71	Feb. 6	3.82	Aug. 31	4.29
24	4.71	Mar. 3	3.56	Sept. 27	4.62
Nov. 23	4.78	16	3.53	Aug. 28, 1959	4.42
		Apr. 15	3.40		

25S/40E-14H1. Depth 6.5 ft. Altitude 2,160.5 ft.

Dec. 18, 1952	3.15	Oct. 21, 1953	3.94	Jan. 19, 1954	3.53
Mar. 30, 1953	2.98	Nov. 23	3.79	Mar. 16	2.88
Sept. 22	3.93	Dec. 17	3.69	Sept. 15, 1959	3.47

25S/40E-18R1. Depth 31.3 ft. Altitude 2,183 ft.

May 13, 1952	1.52	Sept. 21, 1953	2.73	Mar. 16, 1954	1.76
Apr. 1, 1953	1.91	Oct. 20	2.59	Aug. 25, 1959	3.21

25S/40E-19LL. Depth 10.7 ft. Altitude 2,188.2 ft.

	Date	Water level		Date	Water level		Date	Water level
May	13, 1952	7.31		Sept. 21, 1953	8.50		Mar. 16, 1954	7.89
Apr.	1, 1953	8.06		Oct. 20	8.48		Aug. 25, 1959	8.98
Aug.	19	8.43		Jan. 20, 1954	8.16			

25S/40E-20FL. Depth 182.6 ft. Altitude 2,179.5 ft.

May	13, 1952	+0.83	June	24, 1953	+0.16	Jan.	2, 1954	+0.35
Sept.	9	.07	Aug.	19	.12	Mar.	16	.16
Oct.	21	.01	Sept.	21	.10	June	22	.33
Apr.	1, 1953	.40	Oct.	20	.09	Aug.	25, 1959	.25

25S/40E-24BL. Depth 9.7 ft. Altitude 2,158.7 ft.

May	11, 1953	4.48	Sept.	22, 1953	5.13	Mar.	16, 1954	4.41
	21	4.62	Oct.	21	5.25			
June	23	4.72	Nov.	23	5.32			

25S/40E-24HL. Depth 40.4 ft. Altitude 2,159.4 ft.

May	11, 1953	6.03	June	23, 1953	6.04	Feb.	8, 1954	6.26
	27	6.02	Sept.	22	6.31	Mar.	16	6.08
			Oct.	20	6.40	Aug.	28, 1959	5.84

25S/40E-24NL. Depth 30.5 ft. Altitude 2,159.7 ft.

May	11, 1953	6.05	July	6, 1953	6.26	Nov.	23, 1953	6.71
	21	6.07		8	6.28	Dec.	17	6.74
	23	6.09	Sept.	22	6.57	Jan.	19, 1954	6.59
June	23	6.19	Oct.	21	6.65	Mar.	16	6.47

Aug. 28, 1959 Destroyed

25S/40E-25HL. Depth 54.8 ft. Altitude 2,152.2 ft.

May	11, 1953	4.20	Sept.	22, 1953	3.33	Mar.	16, 1954	3.66
	21	1.96	Oct.	20	3.42	July	21	3.28
	27	3.13	Nov.	23	3.57	Aug.	28, 1959	2.78
June	23	3.18	Feb.	8, 1954	3.66			
Aug.	20	3.24	Mar.	10	3.67			

25S/40E-25H2. Depth 8.3 ft. Altitude 2,151.8 ft.

	Date	Water level	Date	Water level	Date	Water level
May	11, 1953	4.56	Sept. 22, 1953	4.55	Feb. 8, 1954	4.92
	27	4.54	Oct. 20	4.71	Mar. 10	4.74
Aug.	20	4.47	Nov. 23	4.90	16	4.70

25S/40E-27E1. Depth 16.4 ft. Altitude 2,168.7 ft.

May	11, 1953	3.43	Aug. 22, 1953	3.63	Feb. 4, 1954	3.72
	21	3.40	Sept. 21	3.74	Mar. 16	3.56
June	25	3.40	Oct. 21	3.84	Sept. 2, 1959	4.40
July	8	3.39	Dec. 17	3.86		

25S/40E-33L1. Depth 171.4 ft. Altitude 2,171.1 ft.

Mar.	9, 1954	e27.36	June	22, 1954	f2.14	Dec.	20, 1954	f9.96
	10	f26.88	July	21	1.43	Jan.	26, 1955	2.68
	16	f22.99	Aug.	31	1.80	Apr.	5	2.40
Apr.	15	f12.88	Sept.	29	1.79	Aug.	25, 1959	2.22
May	13	f7.10	Nov.	30	f21.60			

25S/40E-33L2. Depth 21.2 ft. Altitude 2,171.0 ft.

Mar.	8, 1954	2.01	June	22, 1954	2.22	Nov.	30, 1954	2.33
	10	2.01	July	21	2.36	Dec.	23	2.23
	17	2.01	Aug.	31	2.62	Jan.	26, 1955	2.11
Apr.	15	1.96	Sept.	29	2.53	Apr.	5	2.14
May	13	2.04				Aug.	25, 1959	2.74

25S/40E-35P1. Depth 15.4 ft. Altitude 2,158.8 ft.

May	21, 1953	8.88	Sept.	21, 1953	9.36	Mar.	16, 1954	9.01
June	24	8.96	Oct.	21	9.39	Sept.	2, 1959	8.85
July	8	8.99	Dec.	17	9.59			
	9	9.02	Feb.	4, 1954	9.30			

25S/41E-19L1. Depth 23.5 ft. Altitude 2,157.8 ft.

May	21, 1953	4.98	July	6, 1953	5.15	Feb.	8, 1954	5.35
	23	4.99		9	5.08	Mar.	16	5.20
	27	5.01	Sept.	22	5.42	Sept.	4, 1959	5.40
June	24	5.09	Oct.	20	5.52			

See footnotes at end of table.

25S/41E-28B1. Depth 161.8 ft. Altitude 2,238.6 ft.

	Water level		Water level		Water level
Date		Date		Date	
Mar. 10, 1954	68.84	Apr. 15, 1954	67.60	Aug. 27, 1959	67.73
16	67.58	May 13	67.66		

25S/41E-28N1. Altitude 2,173.6 ft.

May 21, 1953	10.06	June 24, 1953	10.36	Dec. 13, 1953	11.27
23	10.14	Sept. 21	10.71	Mar. 16, 1954	11.08
27	10.18	Oct. 20	11.10	Aug. 27, 1959	Destroyed

25S/41E-31C1. Depth 9.2 ft. Altitude 2,153.1 ft.

June 26, 1953	7.09	Sept. 22, 1953	7.59	Mar. 16, 1954	8.40
July 6	6.85	Oct. 20	7.85	Sept. 4, 1959	6.46
		Feb. 8, 1954	dry		

26S/38E-1B1. Depth 154 ft. Altitude 2,334.9 ft.

June 5, 1952	125.72	Jan. 19, 1954	126.33	July 5, 1957	127.91
Sept. 8	125.95	Mar. 16	126.38	Sept. 19	128.09
Oct. 22	125.95	May 13	126.45	Apr. 8, 1958	128.26
Mar. 31, 1953	126.18	May 6, 1955	126.79	Sept. 18	129.06
June 23	126.56	Oct. 14	126.96	Dec. 17, 1959	129.58
Oct. 20	126.45	Apr. 17, 1956	127.09		
Dec. 12	126.59	Oct. 12	127.47		

26S/38E-2Q1. Depth 269.7 ft. Altitude 2,429.6 ft.

1920 215	Feb. 13, 1946	218.7	Mar. 31, 1953	219.08
1921 217	July 17, 1952	218.65	Mar. 16, 1954	219.68

26S/39E-2C1. Depth 76.4 ft. Altitude 2,248.3 ft.

Jan. 24, 1946	55.0	Apr. 1, 1953	54.32	June 21, 1954	54.27
May 14, 1952	54.35	Mar. 16, 1954	54.28	Oct. 22, 1959	54.73

26S/39E-2D1. Depth 97.8 ft. Altitude 2,258.8 ft.

Jan. 27, 1920	62.9	June 23, 1953	63.08	Oct. 19, 1953	62.99
Jan. 24, 1946	64.0	July 28	63.83	Mar. 16, 1954	62.85
May 14, 1952	a64.16	30	a63.44	June 21	62.85
Sept. 9	a65.42	Aug. 3	63.23	Oct. 22, 1959	63.58
Apr. 1, 1953	63.02	19	63.07		

See footnotes at end of table.

26S/39E-3D1. Depth 68.0 ft. Altitude 2,264.6 ft.

Date	Water level	Date	Water level	Date	Water level
Jan. 31, 1946	66.4	Apr. 1, 1953	66.02	Oct. 22, 1959	77.59
May 19, 1952	65.94	Mar. 16, 1954	66.59		

26S/39E-5F1. Depth 200 ft. Altitude 2,276.7 ft.

Sept. 9, 1952	71.22	Mar. 16, 1954	71.72	Sept. 18, 1958	72.78
Mar. 31, 1953	71.36	Oct. 14, 1955	71.94		
Oct. 22	71.59	Sept. 20, 1957	72.30		

26S/39E-7N1. Depth 368 ft. Altitude 2,394.3 ft.

Feb. 8, 1946	185.1	Sept. 8, 1952	c223.24	Dec. 15, 1953	184.14
June 5, 1952	184.14	June 23, 1953	c225.84	Sept. 18, 1958	192.25
July --	g187	Oct. 20	184.11	Jan. 12, 1960	195.42

26S/39E-10N1. Altitude 2,333.0 ft.

1912	126.0	June 23, 1953	128.64	May 6, 1955	129.06
Jan. 24, 1946	128.7	Oct. 19	128.75	Oct. 14	129.23
May 19, 1952	132.12	Jan. 19, 1954	128.77	Oct. 11, 1956	Destroyed
Sept. 9	128.53	Mar. 16	128.78		
Apr. 1, 1953	128.55				

26S/39E-11E1. Depth 250 ft. Altitude 2,305.0 ft.

Jan. 22, 1946	103.0	Aug. 4, 1953	103.02	Oct. 14, 1955	103.01
Apr. 22, 1952	102.23	Oct. 19	102.59	Oct. 11, 1956	103.19
Apr. 1, 1953	102.47	Mar. 16, 1954	102.59	Sept. 19, 1957	103.45
July 27	102.72	Sept. 28	102.63	Sept. 18, 1958	103.63
30	b109.91	Aug. 29, 1955	103.01	Oct. 22, 1959	103.89
Aug. 1	103.05				

26S/39E-11Q1. Depth 191 ft. Altitude 2,311.0 ft.

Jan. 22, 1946	107.5	Mar. 16, 1953	107.58	Sept. 20, 1957	109.45
May 14, 1952	108.26	Sept. 28, 1954	108.58	Sept. 17, 1958	109.73
Apr. 1, 1953	108.41	Nov. 30	108.76		
25	108.61	Oct. 15, 1955	108.98		

See footnotes at end of table.

26S/39E-12G1. Depth 137.0 ft. Altitude 2,277.0 ft.

Date	Water level	Date	Water level	Date	Water level
Jan. 22, 1946	79.6	Mar. 16, 1954	80.40	Sept. 20, 1957	80.84
May 14, 1952	80.29	June 22	80.44	Sept. 17, 1958	80.94
Apr. 1, 1953	80.35	Sept. 28	80.47	Oct. 21, 1959	81.14
Oct. 20	80.41	Oct. 15, 1955	80.58		

26S/39E-12N1. Altitude 2,301.0 ft.

1921	97	May	8, 1953	99.39	June	22, 1954	99.54
Jan. 19, 1946	95.9		15	99.40	Sept. 28		99.63
May 14, 1952	99.16		22	99.38	Oct. 15, 1955		98.48
Apr. 1, 1953	99.35		29	99.38	Sept. 20, 1957		98.24
10	99.34	June	4	99.33	Sept. 17, 1958		98.38
17	99.33		24	99.34	Oct. 21, 1959		
24	99.31	Oct.	20	99.45			
May 1	99.38	Mar.	16, 1954	99.47			

26S/39E-13P1. Depth 134.4 ft in 1952. Altitude 2,335.7 ft.

Jan. 27, 1920	129.5	Jan. 19, 1946	131.0	Apr. 1, 1953	133.73
	1921 130	May 14, 1952	133.69	Oct. 22, 1959	Destroyed

26S/39E-14E1. Depth 242.3 ft. Altitude 2,334.2 ft.

Jan. 22, 1946	127.0	Dec. 17, 1953	131.39	Oct. 11, 1956	132.14
May 19, 1952	131.00	Mar. 16, 1954	131.37	Sept. 19, 1957	133.39
Apr. 1, 1953	131.22	Sept. 28	131.54	Sept. 18, 1958	132.54
25	131.19	Apr. 5, 1955	131.72	Oct. 22, 1959	132.90
Oct. 19	131.34	Oct. 14	131.87		

26S/39E-15Q1. Depth 272.9 ft. Altitude 2,365.6 ft.

Jan. 20, 1920	160.0	Mar. 16, 1954	163.14	Sept. 18, 1958	164.09
May 19, 1952	162.64	Oct. 14, 1955	163.57	Jan. 13, 1960	164.65
Apr. 1, 1953	162.90	Sept. 19, 1957	163.84		

26S/39E-19P1. Depth 446 ft. Altitude 2,416.0 ft.  
 (Measurements prior to 1952 from U.S. Navy)

Date	Water level	Date	Water level	Date	Water level
Aug. 1944	202	Nov. 1948	205	Jan. 1950	205
Sept. 1945	203.5	Dec. 1949	205	Feb.	206
Oct. 1946	203.0	Jan. 1949	206	Mar.	206
Jan. 1948	205	Feb.	206	Apr.	206
Feb.	205	Mar.	205	May	206
Mar.	205	Apr.	205	June	204
Apr.	204	May	205	July	205
May	204	June	206	May 1951	202
June	204	Aug.	204	May 20, 1952	b213.8
July	204	Sept.	204	June 1, 1953	b221.82
Aug.	205	Oct.	205	Apr. 8, 1958	211.06
Sept.	205	Nov.	205		
Oct.	205	Dec.	205		

26S/39E-19Q1. Depth 367.5 ft. Altitude 2,418.3 ft.

Mar. 14, 1944	g210	Oct. 20, 1953	210.28	Jan. 16, 1956	212.28
Sept. 7, 1945	g207.5	Nov. 24	210.39	Feb. 16	a212.28
May 20, 1952	208.03	Dec. 12	209.73	Sept. 13	214.41
July 18	208.90	Jan. 20, 1954	209.79	Oct. 11	215.40
31	209.14	Mar. 17	210.20	Nov. 15	214.03
Sept. 8	209.62	Apr. 16	c228	Jan. 25, 1957	213.24
Oct. 8	209.20	Oct. 26	212.66	Feb. 19	213.85
22	209.13	Jan. 25, 1955	a211.08	Oct. 17	215.84
Dec. 11	208.38	Mar. 2	a213.28	Nov. 20	216.05
Feb. 16, 1953	208.03	May 6	214.93	Feb. 5, 1958	213.98
Mar. 18	208.33	June 13	215.36	Mar. 6	214.10
18	b233.04	Aug. 30	213.75	Aug. 6, 1959	216.94
20	208.76	Sept. 29	213.87	Nov. 19	216.24
Apr. 2	209.13	Oct. 14	213.70	Dec. 16	215.95
June 23	209.82	Nov. 16	213.53	Jan. 19, 1960	214.99
				Sept. 5	a231.05
				Nov. 9	d225.60

See footnotes at end of table.

26S/39E-20Q1. Depth 490.0 ft. Altitude 2,421.8 ft.

Date	Water level	Date	Water level	Date	Water level
Feb. 20, 1946	210.6	Nov. 16, 1955	215.09	Feb. 5, 1958	216.38
Apr. 27, 1953	212.26	Jan. 16, 1956	214.71	Mar. 6	216.07
Dec. 12	212.84	Feb. 16	214.79	Apr. 8	217.13
Jan. 20, 1954	212.90	Mar. 19	214.88	May 12	217.05
Feb. 3	212.79	Apr. 17	215.05	June 19	217.07
20	212.72	May 16	215.05	Jan. 14, 1959	217.14
Mar. 16	212.76	June 14	215.46	Feb. 11	216.94
Apr. 16	213.45	July 16	215.78	Mar. 9	217.11
May 13	213.45	Aug. 8	215.99	Apr. 8	217.40
June 23	213.58	Sept. 14	215.79	May 6	217.37
July 21	213.80	Oct. 4	215.89	June 10	218.00
Aug. 30	214.18	Nov. 15	215.79	July 8	218.34
Sept. 28	214.04	Dec. 20	215.50	Aug. 6	217.96
Oct. 26	214.12	Jan. 25, 1957	215.49	Sept. 15	218.20
Nov. 30	214.19	Feb. 19	215.61	Oct. 21	218.73
Dec. 28	213.80	Mar. 8	215.45	Nov. 19	218.03
Jan. 25, 1955	213.77	21	215.63	Dec. 16	218.00
Mar. 2	215.12	May 1	216.08	Jan. 19, 1960	217.73
Apr. 5	214.60	June 19	216.34	Feb. 24	217.81
May 6	214.24	July 19	216.83	Mar. 30	217.90
June 13	214.50	Aug. 14	217.36	May 4	218.30
July 19	214.87	Sept. 19	216.86	June 1	218.78
Aug. 29	215.13	Oct. 17	216.80	July 6	219.10
Sept. 29	215.06	Nov. 20	216.81	Aug. 2	218.85
Oct. 14	215.04	Dec. 19	216.73	Sept. 5	218.90
				Oct. 2	219.60
				Nov. 9	218.90

26S/39E-23El. Depth 190.0 ft. Altitude 2,372.3 ft.

	Date	Water level		Date	Water level		Date	Water level
Jan.	27, 1920	163	Nov.	16, 1955	170.85	May	12, 1958	171.26
	1921	164	Dec.	14	170.82	June	19	171.30
Jan.	20, 1946	164.1	Jan.	1, 1956	170.86	July	14	171.30
May	19, 1952	169.64	Feb.	16	170.86	Aug.	18	171.38
Apr.	1, 1953	169.99	Mar.	20	170.95	Sept.	18	171.32
Oct.	19	170.20	Apr.	17	170.86	Nov.	3	171.37
Nov.	24	170.25	May	16	170.85	Dec.	10	171.56
Dec.	17	170.24	June	14	170.85	Jan.	14, 1959	171.55
Jan.	19, 1954	170.22	July	16	170.91	Feb.	11	171.59
Mar.	16	170.24	Aug.	8	171.00	Mar.	9	171.54
Apr.	16	170.33	Sept.	14	170.97	Apr.	8	171.62
May	13	170.34	Oct.	11	171.05	May	6	171.71
June	22	170.37	Nov.	15	171.08	June	10	171.71
July	21	170.42	Dec.	20	170.97	July	8	171.87
Aug.	30	170.40	Jan.	25, 1957	170.96	Aug.	6	171.82
Sept.	28	170.41	Feb.	19	171.09	Sept.	16	171.86
Oct.	26	170.48	Mar.	19	170.97	Oct.	21	171.91
Nov.	30	170.52	May	1	171.05	Nov.	19	171.92
Dec.	23	170.56	June	17	171.10	Dec.	16	171.91
Jan.	26, 1955	170.55	July	19	171.10	Jan.	19, 1960	171.88
Mar.	2	170.59	Aug.	14	171.11	Feb.	24	171.86
Apr.	5	170.62	Sept.	19	171.15	Mar.	30	171.87
May	6	170.67	Oct.	17	171.22	May	4	171.92
June	13	170.68	Nov.	20	171.26	June	1	171.97
July	19	170.67	Dec.	19	171.26	July	6	172.02
Aug.	29	170.81	Feb.	5, 1958	171.29	Aug.	2	172.03
Sept.	29	170.81	Mar.	6	171.30	Sept.	5	172.17
Oct.	14	170.82	Apr.	8	171.32	Oct.	2	172.17
						Nov.	9	172.26

26S/39E-24K1. Depth 323.1 ft. Altitude 2,347.4 ft.

Apr.	24, 1952	155.38	Mar.	6, 1953	154.22	Sept.	28, 1954	a156.66
July	14	c172.62		14	153.80	Apr.	5, 1955	155.57
Feb.	16, 1953	158.96		15	153.65	Oct.	15	156.22
		155.08		16	153.54	Sept.	13, 1956	158.48
		154.91	Apr.	1	154.49	Sept.	20, 1957	155.69
		154.45	Oct.	20	157.10	Sept.	17, 1958	154.87
Mar.	2	154.22	Mar.	16	a155.34	Sept.	17, 1959	154.61
	4	a155.18		17	155.02	Aug.	4, 1960	157.71

See footnotes at end of table.

## 26S/39E-24Q1. Depth 361 ft. Altitude 2,350.4 ft.

		Water level		Water level		Water level
Date		Date		Date		Date
Feb.	20, 1946	151.4	Mar.	6, 1953	157.54	Sept. 29, 1955
Apr.	24, 1952	158.85		7	157.54	Oct. 14
July	14	c183.0		14	157.12	Sept. 13, 1956
Feb.	17, 1953	159.24		16	156.99	Sept. 19, 1957
	20	158.25		18	158.56	Sept. 18, 1958
	26	157.86	Apr.	1	157.63	Oct. 21, 1959
	27	157.78	Oct.	20	160.9	Aug. 4, 1960
Mar.	1	157.51	Mar.	16	a159.13	
	3	a158.72		17	158.64	
			Apr.	6, 1955	159.54	

## 26S/39E-24R1. Depth 480 ft. Altitude 2,344.9 ft.

(Measurements prior to 1952 by U.S. Navy)

Sept.	1945	145.2	Mar.	7, 1953	150.84	Feb.	19, 1957	149.91
Oct.	1946	154.0	Apr.	1	c175.42	Mar.	21	149.71
July	1947	158.0	Oct.	20	154.56	May	1	154.64
Jan.	1948	148	Nov.	24	152.42	Sept.	18	154.23
June		151	Dec.	17	a b179.79	Oct.	17	152.11
Nov.		154	Jan.	20, 1954	152.62	Nov.	20	150.80
Dec.		149	Feb.	2	152.07	Dec.	19	151.09
Jan.	1949	149	Mar.	17	152.62	Feb.	5, 1958	150.81
May		150	Apr.	16	154.37	Mar.	7	150.92
Sept.		155	Sept.	28	a154.93	Apr.	8	150.11
Jan.	1950	153	Oct.	26	152.00	Aug.	18	152.39
Feb.		156	Nov.	30	155.93	Dec.	10	152.13
Mar.		154	Dec.	23	154.58	Jan.	14, 1959	150.78
Apr.		153	Apr.	4, 1955	152.88	Feb.	11	150.92
May		157	May	6	152.45	Mar.	9	150.20
June		152	June	13	154.43	May	6	151.30
July		155	Aug.	30	a158.39	June	10	151.96
Aug.		156	Sept.	29	161.44	July	8	a154.22
Sept.		153	Oct.	14	154.31	Aug.	6	155.49
Oct.		158	Nov.	16	151.89	Sept.	16	151.25
Apr.	24, 1952	151.91	Dec.	14	151.35	Oct.	21	151.45
July	14	c178.52	Jan.	16, 1956	150.71	Nov.	19	151.20
Feb.	16, 1953	c177.93	Feb.	16	150.52	Dec.	16	150.96
	17	152.64	Mar.	20	150.17	Jan.	19, 1960	150.64
	18	151.55	Apr.	17	149.90	Feb.	24	150.00
	20	151.16	May	16	149.80	Mar.	30	150.37
	24	150.86	June	14	150.61	May	4	150.87
	26	150.71	Sept.	13	155.83	June	1	151.11
	28	150.45	Oct.	11	151.25	July	6	a155.35
Mar.	2	150.58	Nov.	15	150.73	Aug.	2	a155.95
	4	c176.41	Dec.	20	150.75	Sept.	5	153.86
			Jan.	25, 1957	150.03	Oct.	2	152.65
						Nov.	9	151.53

See footnotes at end of table.

26S/39E-25D1. Depth 272 ft. Altitude 2,372.9 ft.  
 (Measurements from 1947 through 1950 by owner)

	Water level	Date	Water level	Date	Water level
	1912	154.5	Nov.	1949	179.8
	1920	160	Dec.		179.5
Feb. 1947	173.5	Jan.	1950	178.85	
May	174.7	Mar.		178.70	
Aug.	175.5	May		178.35	
Sept.	175.7	June		181.2	
Oct.	175.3	May 20, 1952	a181.35		181.08
Nov.	175.3	July 18	a179.99	Mar. 16, 1954	a180.02
Dec.	175.7	Sept. 8	179.93	Sept. 28	a180.26
Jan. 1948	175.3	Oct. 8	180.22	May 6, 1955	a180.30
Feb.	175.8	22	a180.04	Aug. 29	a181.54
Mar.	175.7	Feb. 17, 1953	a179.25	Oct. 12	a182.89
Apr.	175.7	18	a178.95	Feb. 16, 1956	a179.35
May	175.7	19	a178.96	Apr. 17	178.76
Sept.	176.4	20	a178.84	Oct. 10	a181.57
Nov.	178.95	25	178.97	July 5, 1957	a180.00
Jan. 1949	178.1	26	a178.24	Sept. 18	179.73
Mar.	177.9	Mar. 1	a178.57	Mar. 7, 1958	a178.67
May	178.7	2	178.65	Sept. 17	a179.35
July	178.7	3	178.87	Aug. 4, 1960	a182.00
Sept.	179.35	4	178.89		
Oct.	179.8	5	178.73		

26S/39E-25D2. Depth 330 ft. Altitude 2,368.0 ft.  
 (Measurements from 1942 to 1950 by owner)

June	1942	163.7	June	1949	177.2	Mar.	7, 1953	c181.62
July		161.1	Aug.		178.2		12	176.2
Apr. 1946		169.0	Feb. 1950		176.8		16	175.46
Jan. 1947		170.2	Apr.		177.0		17	175.51
Apr. 1948		173.3	May 1952		175.53	Apr.	1	174.99
July		174.9	Feb. 17, 1953	c183.15		Mar.	16, 1954	a176.08
Aug.		174.3	24		c183.50	Sept.	18, 1957	175.85
Oct.		175.4	26		c181.65	Sept.	17, 1958	177.37
Dec.		176.0	28		c181.35	Mar.	15, 1960	178.53
Feb. 1949		177.0	Mar. 1		c181.40	Aug.	4	a177.70
Apr.		176.8	2		c181.50			
			3		c181.58			
			5		c180.57			

See footnotes at end of table.

26S/39E-25El. Depth 387 ft. Altitude 2,372.2 ft.

Date	Water level	Date	Water level	Date	Water level
May 20, 1952	c183.72	Apr. 6, 1955	c179.50	Sept. 17, 1958	178.85
Feb. 17, 1953	178.65	Oct. 12	c180.47	Aug. 4, 1960	c186.98
Apr. 1	c181.77	Oct. 10, 1956	179.57		
Sept. 28, 1954	c179.74	Sept. 14, 1957	179.39		

26S/39E-26Cl. Depth 249 ft. Altitude 2,394.9 ft.

May 14, 1952	196.13	Sept. 28, 1954	197.12	Sept. 17, 1958	197.29
Apr. 2, 1953	196.11	Oct. 12, 1955	197.58	Aug. 4, 1960	d198.80
Mar. 16, 1954	198.00	Sept. 18, 1957	197.42		

26S/39E-26Dl. Depth 213 ft. Altitude 2,400.9 ft.

1912	187	Apr. 1, 1953	192.73	Sept. 28, 1954	193.27
Jan. 17, 1946	189.3	2	192.72	Apr. 6, 1955	193.44
May 14	192.29	June 23	192.78	Oct. 12	193.24
Sept. 8, 1952	192.50	Oct. 19	193.09	Oct. 10, 1956	194.12
Oct. 8	192.64	Mar. 16, 1954	193.22		

26S/39E-26El. Depth 250 ft. Altitude 2,402.3 ft.

May 14, 1952	195.56	Oct. 19, 1953	196.35	Aug. 4, 1960	199.85
Oct. 22	195.90	Mar. 16, 1954	196.27		
Apr. 3, 1953	195.93	Sept. 17, 1958	198.23		

See footnotes at end of table.

26S/39E-30C1. Depth 370 ft. Altitude 2,427.1 ft.  
 (Measurements from 1944 to 1947 by U.S. Navy)

		Water level		Water level		Water level
Date		Date		Date		Date
June	19, 1944	210	June	14, 1956	224.53	Sept. 18, 1958
	20	b220	July	16	225.10	Nov. 3
Sept.	7, 1945	216.2	Aug.	8	225.37	Dec. 10
	7	b218.5	Oct.	11	224.85	Jan. 14, 1959
Oct.	8, 1946	218.3	Nov.	15	224.01	Feb. 11
	8	b226.3	Dec.	20	224.95	Mar. 9
July	28, 1947	218.3	Jan.	25, 1957	222.82	Apr. 8
	28	b226.3	Feb.	19	223.49	May 6
May	20, 1952	216.56	Mar.	21	223.66	June 10
July	18	a217.97	May	1	224.25	July 8
Apr.	2, 1953	a217.47	June	19	225.50	Aug. 6
Mar.	16, 1954	219.65	July	19	227.24	Sept. 16
Sept.	28	a222.72	Aug.	14	226.43	Oct. 21
Apr.	5, 1955	a221.00	Sept.	19	226.35	Nov. 19
Aug.	29	a224.04	Oct.	17	225.87	Dec. 16
Oct.	14	223.58	Nov.	20	225.04	Jan. 19, 1960
Nov.	16	223.21	Dec.	19	224.11	Feb. 24
Dec.	14	222.17	Feb.	5, 1958	223.58	Mar. 30
Jan.	16, 1956	222.30	Mar.	6	223.30	May 4
Feb.	16	222.28	May	12	224.82	June 1
Mar.	19	222.67	June	19	225.70	July 6
Apr.	17	222.94	July	14	226.66	Aug. 2
May	16	223.45	Aug.	18	226.70	Sept. 5
						Oct. 2
						Nov. 9
						227.39
						a228.80

26S/40E-1A1. Depth 15.2 ft. Altitude 2,153.5 ft.

	1921	4.0	Feb.	17, 1956	11.59	Jan.	14, 1959	8.83
June	26, 1953	8.43	Feb.	19, 1957	11.74	Mar.	9	8.92
July	5	8.44	Mar.	22	11.87	Apr.	8	8.23
Sept.	21	8.99	June	18	10.85	June	9	7.66
Oct.	20	9.37	July	18	10.35	July	8	7.59
	22	9.40	Sept.	18	10.39	Aug.	5	7.78
Nov.	23	9.75	Oct.	17	10.91	Oct.	20	8.82
Dec.	16	9.44	Mar.	5, 1958	12.49	Nov.	18	9.14
Feb.	3, 1954	10.50	Apr.	7	12.35	Dec.	15	9.52
	6	10.49	May	15	10.35	Feb.	24, 1960	10.20
Mar.	10	9.87	June	19	8.85	Mar.	30	10.02
	16	9.74	July	15	8.16	May	3	9.50
May	6, 1955	10.29	Aug.	18	8.34	June	1	9.15
June	13	9.79	Sept.	17	8.30	July	5	8.81
Aug.	29	9.68	Dec.	10	8.40	Aug.	2	8.94
Sept.	29	10.15				Sept.	5	9.40
						Oct.	2	9.80

See footnotes at end of table.

## 26S/40E-1A2. Depth 197.5 ft. Altitude 2,157.6 ft.

	Date	Water level		Date	Water level		Date	Water level
Mar.	9, 1954	+0.98	Oct.	11, 1956	+1.42	Jan.	14, 1959	+1.70
	10	+1.01	Nov.	15	+1.39	Mar.	9	+1.70
	16	+1.19	Dec.	21	+1.38	Apr.	8	+1.70
	17	+1.21	Jan.	25, 1957	+1.39	May	6	+1.70
Apr.	15	+1.39	Feb.	19	+1.40	June	9	+1.70
May	13	+1.45	Mar.	27	+1.39	July	8	+1.70
June	21	+1.51	June	18	+1.42	Aug.	5	+1.70
July	21	+1.51	July	18	+1.42	Sept.	15	+1.70
Aug.	31	+1.49	Sept.	18	+1.37	Oct.	20	+1.70
Sept.	28	+1.49	Oct.	17	+1.34	Nov.	18	+1.70
Oct.	26	+1.45	Nov.	21	+1.30	Dec.	15	+1.70
Nov.	30	+1.47	Dec.	19	+1.34	Jan.	19, 1960	+1.70
Dec.	23	+1.50	Feb.	5, 1958	+1.36	Feb.	24	+1.70
Jan.	25, 1955	+1.56	Mar.	5	+1.46	Mar.	30	+1.70
Mar.	3	+1.61	Apr.	7	+1.57	May	3	+1.70
Apr.	6	+1.65	May	15	+1.60	June	1	+1.70
May	6	+1.68	June	19	+1.64	July	5	+1.70
June	13	+1.67	July	15	+1.66	Aug.	2	+1.70
July	19	+1.65	Aug.	18	+1.64	Sept.	5	+1.70
Sept.	29	+1.45	Sept.	17	+1.64	Oct.	2	+1.70
Feb.	17, 1956	+1.41	Dec.	10	+1.70	Nov.	9	+1.70
Sept.	14	+1.41						

## 26S/40E-1A3. Depth 18.5 ft. Altitude 2,157.6 ft.

Mar.	16, 1954	14.71	Oct.	11, 1956	8.86	Jan.	14, 1959	8.92
	17	14.30	Nov.	15	9.07	Mar.	9	7.90
Apr.	15	8.92	Dec.	21	9.37	Apr.	8	7.01
May	13	8.72	Jan.	25, 1957	9.72	May	6	6.90
June	21	8.60	Feb.	19	9.96	June	9	6.83
July	21	8.54	Mar.	22	10.07	July	8	6.90
Aug.	31	8.53	June	18	9.88	Aug.	5	6.96
Sept.	28	8.63	July	18	9.57	Sept.	15	7.09
Oct.	26	8.85	Sept.	18	9.59	Oct.	20	7.02
Nov.	30	9.14	Oct.	17	9.82	Nov.	18	h5.50
Dec.	23	9.34	Nov.	21	10.14	Dec.	15	6.90
Jan.	25, 1955	9.69	Dec.	19	10.43	Jan.	19, 1960	6.76
Mar.	3	9.85	Feb.	5, 1958	10.89	Feb.	24	6.76
Apr.	6	9.87	Mar.	5	10.80	Mar.	30	6.78
May	6	9.83	Apr.	7	9.96	May	3	6.70
June	13	9.66	May	15	9.23	June	1	7.10
July	19	9.43	June	19	8.78	July	5	7.14
Aug.	29	5.26	July	15	8.61	Aug.	2	7.22
Sept.	29	6.59	Aug.	18	8.67	Sept.	5	7.37
Feb.	17, 1956	8.18	Sept.	17	8.63	Oct.	2	7.47
Sept.	14	8.83	Dec.	10	8.94	Nov.	9	7.20

See footnotes at end of table.

26S/40E-1J1. Depth 18.3 ft. Altitude 2,161.8 ft.

	Date	Water level		Date	Water level		Date	Water level
Mar.	7, 1953	6.18	Feb.	19, 1957	7.62	May	6, 1959	4.15
	21	6.20	Mar.	22	6.97	June	10	4.15
	23	6.17	June	18	6.00	July	9	4.34
	27	6.27	July	18	5.89	Aug.	5	4.48
June	23	6.24	Aug.	14	6.15	Sept.	15	4.68
July	8	6.20	Sept.	18	6.64	Oct.	20	4.78
Sept.	21	6.85	Oct.	17	7.20	Nov.	18	5.26
Oct.	20	7.36	Nov.	21	7.96	Dec.	15	5.74
Dec.	16	8.44	Dec.	19	8.35	Jan.	19, 1960	5.48
Jan.	21, 1954	8.16	Feb.	5, 1958	7.64	Feb.	24	5.07
Feb.	4	6.99	Mar.	5	4.84	Mar.	30	4.65
Mar.	16	6.23	Apr.	7	4.00	May	4	4.52
Mar.	3, 1955	6.96	May	15	3.74	June	1	4.65
Apr.	1	6.64	June	19	3.72	July	5	4.69
Feb.	16, 1956	8.07	July	15	3.80	Aug.	2	4.92
Aug.	8	5.74	Aug.	18	4.00	Sept.	5	5.37
Sept.	14	5.85	Sept.	17	3.84	Oct.	2	5.62
Oct.	11	6.04	Dec.	10	4.81	Nov.	9	4.08
Nov.	15	6.98	Jan.	14, 1959	4.87			
Dec.	21	7.81	Mar.	10	4.15			
Jan.	25, 1957	7.92	Apr.	8	4.13			

26S/40E-1Q1. Depth 21.8 ft. Altitude 2,161.6 ft.

July	2, 1956	4.70	Dec.	19, 1957	4.10	July	9, 1959	3.17
Aug.	8	4.44	Feb.	5, 1958	3.69	Aug.	5	3.17
Sept.	14	4.34	Mar.	5	3.14	Sept.	15	2.98
Oct.	11	4.44	Apr.	7	2.83	Oct.	20	2.94
Nov.	15	4.62	May	15	3.07	Nov.	19	3.17
Dec.	21	4.86	June	19	3.10	Dec.	15	3.23
Jan.	25, 1957	4.47	July	15	3.14	Jan.	19, 1960	2.88
Feb.	19	4.62	Aug.	18	3.19	Feb.	24	2.96
Mar.	22	4.48	Sept.	17	2.90	Mar.	30	2.94
June	18	4.39	Dec.	10	3.17	May	4	2.98
July	18	4.30	Jan.	14, 1959	2.84	June	1	3.01
Aug.	14	4.29	Mar.	10	3.10	July	6	3.21
Sept.	18	4.30	Apr.	8	3.08	Aug.	2	3.27
Oct.	17	4.31	May	7	3.13	Sept.	5	3.40
Nov.	21	4.68	June	10	3.11	Oct.	2	3.67
						Nov.	9	2.25

26S/40E-192. Depth 21.6 ft. Altitude 2,159.7 ft.

Date	Water level	Date	Water level	Date	Water level
July 2, 1956	6.83	Dec. 18, 1957	6.57	July 9, 1959	5.24
Aug. 8	7.02	Feb. 5, 1958	6.46	Aug. 5	5.41
Sept. 14	7.03	Mar. 5	6.01	Sept. 15	5.41
Oct. 11	7.00	Apr. 7	4.99	Oct. 20	5.28
Nov. 14	7.04	May 15	4.75	Nov. 19	5.36
Dec. 20	7.12	June 19	5.02	Dec. 16	5.40
Jan. 24, 1957	7.02	July 15	5.22	Jan. 19, 1960	4.59
Feb. 19	6.95	Aug. 18	5.34	Feb. 25	4.37
Mar. 22	6.89	Sept. 16	5.15	Mar. 30	4.35
May 2	6.80	Dec. 10	5.24	May 4	4.61
June 18	6.70	Jan. 14, 1959	4.80	June 1	4.90
July 18	6.65	Feb. 11	4.83	July 6	5.19
Aug. 14	6.61	Mar. 10	4.32	Aug. 2	5.37
Sept. 18	6.62	Apr. 8	4.60	Sept. 5	5.53
Oct. 17	6.62	May 7	4.80	Oct. 2	5.47
Nov. 21	6.60	June 10	4.93	Nov. 9	3.64

26S/40E-5F1. Depth 24.6 ft. Altitude 2,196.8 ft.

Feb. 1, 1946	22.1	Oct. 20, 1953	21.19	Oct. 21, 1959	22.73
Apr. 24, 1953	21.74	Mar. 16, 1954	21.84		

26S/40E-5P1. Depth 89.3 ft. Altitude 2,206.1 ft.

Jan. 31, 1946	23.8	Aug. 3, 1953	30.12	Nov. 24, 1953	30.31
Apr. 3, 1953	29.82	4	30.11	Mar. 16, 1954	30.17
Aug. 1	30.27	Oct. 20	29.95	Sept. 27	30.60
2	30.76	21	29.75	Oct. 21, 1959	30.70

26S/40E-6E1. Depth 45.0 ft. Altitude 2,231.8 ft.

Jan. 27, 1920	34.6	Apr. 8, 1953	40.52	Mar. 16, 1954	40.56
	1921	39.0	40.79	Sept. 17, 1958	41.39
Jan. 22, 1946	39.6	Jan. 14, 1954	40.51	Oct. 21, 1959	42.10

26S/40E-6N1. Depth 85.0 ft. Altitude 2,249.8 ft.

1920	52	Oct. 20, 1953	54.86	Apr. 15, 1954	54.88
May 12, 1952	54.74	Nov. 24	54.86	Apr. 5, 1955	54.96
Sept. 8	54.77	Jan. 14, 1954	54.88	Oct. 21, 1959	55.48
Mar. 31, 1953	54.79	Mar. 16	54.88		
June 24	54.80	Apr. 13	54.90		

See footnotes at end of table.

26S/40E-7Fl. Depth 76.2 ft. Altitude 2,264.8 ft.

Date	Water level	Date	Water level	Date	Water level
Jan. 22, 1946	70.2	Sept. 20, 1953	71.20	Sept. 17, 1958	70.70
May 12, 1952	69.87	Mar. 16, 1954	71.28	Oct. 21, 1959	75.9
Mar. 31, 1953	71.16	Sept. 28	71.23		

26S/40E-8Nl. Depth 185 ft. Altitude 2,262.8 ft.

	1920	82	Oct. 20, 1953	76.17	Apr. 5, 1955	76.18
Jan. 30, 1946	76.1		Jan. 20, 1954	76.18	Oct. 12, 1956	76.23
May 12, 1952	76.09		Mar. 16	76.14	Sept. 19, 1957	76.31
Mar. 31, 1953	76.14		Sept. 28	76.15	Sept. 17, 1958	76.27

26S/40E-10Fl. Depth 38.9 ft. Altitude 2,188.8 ft.

May 21, 1953	19.31	Dec. 16, 1953	19.25	Sept. 12, 1956	18.85
27	19.33	Feb. 4, 1954	19.25	Sept. 19, 1957	18.69
June 22	19.33	Mar. 16	19.20	Sept. 18, 1958	18.44
July 8	19.31	Sept. 29	19.12	Oct. 21, 1959	18.33
Sept. 21	19.28	Apr. 5, 1955	19.10		
Oct. 20	19.25	Oct. 14	18.98		

26S/40E-10Nl. Depth 134.2 ft. Altitude 2,214.6 ft.

	1920	59.0	Mar. 31, 1953	40.82	Mar. 16, 1954	40.51
	1921	41.5	June 22	40.74	June 22	40.45
Feb. 2, 1946	42.6		July 6	40.74	Sept. 27	40.42
May 12, 1952	41.02		Oct. 20	40.66	Oct. 22, 1959	39.01
Sept. 8	41.02		Dec. 16	40.62		

26S/40E-11Al. Depth 5.4 ft. Altitude 2,160 ft.

June 27, 1953	2.44	Oct. 20, 1953	2.99	Mar. 16, 1954	2.06
Sept. 21	3.00	Dec. 16	2.85	Oct. 22, 1959	Destroyed

26S/40E-11Jl. Depth 18.3 ft. Altitude 2,174.0 ft.

		Water level		Water level		Water level
Date		Date		Date		Date
May	20, 1953	5.30	Jan. 24, 1957	4.62	Jan. 14, 1959	4.30
	21	5.35	Feb. 19	4.61	Feb. 11	4.30
	23	5.51	Mar. 22	4.59	Mar. 10	4.10
	27	5.62	May 2	4.36	Apr. 8	4.06
June	22	5.56	June 18	4.34	May 7	4.24
July	6	5.59	July 18	4.59	June 10	4.36
Sept.	21	5.94	Aug. 14	4.80	July 9	4.53
Oct.	20	5.85	Sept. 18	4.75	Aug. 5	4.65
Feb.	4, 1954	5.48	Oct. 17	4.89	Sept. 15	4.65
Mar.	16	5.28	Nov. 21	4.72	Oct. 20	4.57
Sept.	28	5.30	Dec. 18	4.70	Nov. 19	4.70
Apr.	6, 1955	5.29	Feb. 5, 1958	4.54	Dec. 16	4.71
Oct.	14	5.64	Mar. 5	4.10	Jan. 19, 1960	4.52
Feb.	17, 1956	5.42	Apr. 7	3.96	Feb. 25	4.34
Apr.	18	5.10	May 15	3.97	Mar. 30	4.30
Aug.	8	4.86	June 19	4.08	May 4	4.20
Sept.	12	5.02	July 15	4.34	June 1	4.48
Oct.	11	4.85	Aug. 18	4.37	July 6	4.67
Nov.	14	4.78	Sept. 16	4.10	Aug. 3	4.85
Dec.	20	4.83	Dec. 10	4.43	Sept. 5	4.70
					Oct. 2	4.82
					Nov. 9	4.50

26S/40E-12Al. Depth 21.4 ft. Altitude 2,167.8 ft.

July	2, 1956	5.30	Dec. 18, 1957	5.90	July 9, 1959	5.97
Aug.	8	5.33	Feb. 5, 1958	5.40	Aug. 5	5.15
Sept.	14	5.63	Mar. 5	5.26	Sept. 15	5.08
Oct.	11	5.45	Apr. 7	4.99	Oct. 20	5.16
Nov.	14	5.59	May 15	4.60	Nov. 19	4.78
Dec.	20	5.96	June 19	4.69	Dec. 16	4.97
Jan.	24, 1957	5.31	July 15	4.65	Jan. 19, 1960	5.01
Feb.	19	5.24	Aug. 18	5.29	Feb. 25	4.45
Mar.	22	5.01	Sept. 16	5.31	Mar. 30	4.45
May	2	5.03	Dec. 10	4.79	May 3	4.57
June	18	5.36	Jan. 14, 1959	4.81	June 1	4.80
July	18	5.64	Feb. 11	4.65	July 5	5.03
Aug.	14	5.86	Mar. 10	4.74	Aug. 2	5.20
Sept.	18	6.11	Apr. 8	4.76	Sept. 5	5.46
Oct.	17	6.20	May 6	4.70	Oct. 2	5.54
Nov.	21	6.19	June 10	5.12	Nov. 9	4.17

26S/4OE-12Gl. Depth 22.3 ft. Altitude 2,170.4 ft.

Date	Water level	Date	Water level	Date	Water level
July 2, 1956	7.00	Dec. 18, 1957	7.65	July 9, 1959	6.89
Aug. 8	7.03	Feb. 5, 1958	7.09	Aug. 5	7.12
Sept. 14	7.36	Mar. 5	6.10	Sept. 15	7.30
Oct. 11	7.46	Apr. 7	5.77	Oct. 20	7.12
Nov. 14	7.52	May 15	5.88	Nov. 19	7.15
Dec. 20	7.50	June 19	6.26	Dec. 16	7.11
Jan. 24, 1957	7.13	July 15	6.56	Jan. 19, 1960	6.66
Feb. 19	6.95	Aug. 18	6.91	Feb. 25	6.37
Mar. 22	6.82	Sept. 16	6.80	Mar. 30	6.29
May 2	6.85	Dec. 10	6.78	May 4	6.44
June 18	7.17	Jan. 14, 1959	6.57	June 1	6.63
July 18	7.44	Feb. 11	6.44	July 5	6.87
Aug. 14	7.63	Mar. 10	6.07	Aug. 2	7.04
Sept. 18	7.84	Apr. 8	6.25	Sept. 5	7.30
Oct. 17	7.87	May 7	6.42	Oct. 2	7.37
Nov. 21	7.80	June 10	6.61	Nov. 9	6.63

26S/4OE-12Ql. Depth 21.8 ft. Altitude 2,175.7 ft.

Date	Water level	Date	Water level	Date	Water level
July 3, 1956	2.07	Dec. 18, 1957	2.03	July 9, 1959	2.08
Aug. 8	2.25	Feb. 5, 1958	1.77	Aug. 5	2.14
Sept. 14	2.36	Mar. 5	1.60	Sept. 15	2.06
Oct. 11	2.32	Apr. 7	1.54	Oct. 20	1.98
Nov. 14	2.25	May 15	1.78	Nov. 19	1.86
Dec. 20	2.23	June 19	2.03	Dec. 16	1.82
Jan. 24, 1957	2.04	July 15	2.21	Jan. 19, 1960	1.64
Feb. 19	2.04	Aug. 18	2.19	Feb. 25	1.58
Mar. 22	2.04	Sept. 16	2.24	Mar. 30	1.60
May 2	2.04	Dec. 10	1.93	May 4	1.70
June 18	2.30	Jan. 14, 1959	1.77	June 1	1.89
July 18	2.43	Feb. 11	1.70	July 5	2.05
Aug. 14	2.47	Mar. 10	1.58	Aug. 3	2.14
Sept. 18	2.47	Apr. 8	1.65	Sept. 5	2.12
Oct. 17	2.38	May 6	1.78	Oct. 2	2.08
Nov. 21	2.19	June 10	1.92	Nov. 9	1.63

26S/40E-12R1. Depth 20.9 ft. Altitude 2,181.5 ft.

		Water level		Date	Water level		Date	Water level
July	2, 1956	1.65	Dec.	18, 1957	1.16	July	9, 1959	1.06
Aug.	8	1.65	Feb.	5, 1958	1.09	Aug.	5	1.04
Sept.	14	1.64	Mar.	5	1.05	Sept.	15	1.14
Oct.	11	1.56	Apr.	7	1.01	Oct.	20	1.17
Nov.	14	1.53	May	15	1.05	Nov.	18	1.06
Dec.	20	1.46	June	19	1.09	Dec.	16	1.11
Jan.	24, 1957	1.39	July	15	1.17	Jan.	19, 1960	1.09
Feb.	19	1.35	Aug.	18	1.16	Feb.	25	1.04
Mar.	22	1.38	Sept.	16	1.18	Mar.	30	1.05
May	2	1.32	Dec.	10	1.00	May	4	1.10
June	18	1.36	Jan.	14, 1959	.94	June	1	1.22
July	18	1.36	Feb.	11	.91	July	5	1.30
Aug.	14	1.33	Mar.	10	.95	Aug.	3	1.32
Sept.	18	1.32	Apr.	8	.95	Sept.	5	1.30
Oct.	17	1.30	May	6	.97	Oct.	2	1.31
Nov.	21	1.24	June	10	1.00	Nov.	9	1.22

26S/40E-13C1. Depth 21.5 ft. Altitude 2,189.1 ft.

		Water level		Date	Water level		Date	Water level
July	5, 1956	8.18	Dec.	18, 1957	7.66	July	9, 1959	7.12
Aug.	8	8.28	Feb.	5, 1958	7.50	Aug.	5	7.12
Sept.	14	8.34	Mar.	5	7.33	Sept.	15	7.25
Oct.	11	8.29	Apr.	7	7.24	Oct.	20	7.27
Nov.	14	8.30	May	15	7.20	Nov.	18	7.25
Dec.	20	8.12	June	19	7.29	Dec.	16	7.22
Jan.	24, 1957	7.98	July	15	7.39	Jan.	19, 1960	7.18
Feb.	19	7.90	Aug.	18	7.42	Feb.	24	6.95
Mar.	22	7.83	Sept.	16	7.50	Mar.	30	6.94
May	2	7.78	Dec.	10	7.26	May	4	7.04
June	18	7.83	Jan.	14, 1959	7.17	June	1	7.15
July	18	7.84	Feb.	11	7.04	July	5	7.30
Aug.	14	7.83	Mar.	10	6.38	Aug.	3	7.39
Sept.	18	7.85	Apr.	8	6.74	Sept.	5	7.47
Oct.	17	7.84	May	6	6.84	Oct.	2	7.48
Nov.	21	7.74	June	10	6.97	Nov.	9	7.28

26S/40E-13M1. Depth 22.2 ft. Altitude 2,196.2 ft.

Date	Water level	Date	Water level	Date	Water level
July 5, 1956	13.14	Dec. 18, 1957	11.59	July 9, 1959	11.67
Aug. 8	13.28	Feb. 5, 1958	11.39	Aug. 5	11.80
Sept. 14	13.25	Mar. 7	11.23	Sept. 15	11.63
Oct. 11	13.04	Apr. 7	11.14	Oct. 20	11.78
Nov. 14	12.96	May 15	11.39	Nov. 18	11.82
Dec. 20	12.57	June 19	11.74	Dec. 16	11.56
Jan. 24, 1957	12.25	July 15	11.93	Jan. 19, 1960	11.18
Feb. 19	12.07	Aug. 18	12.12	Feb. 24	11.03
Mar. 22	12.15	Sept. 16	11.96	Mar. 30	11.15
May 2	12.27	Dec. 10	11.30	May 4	11.46
June 18	12.48	Jan. 14, 1959	11.12	June 1	11.73
July 18	12.58	Feb. 11	10.62	July 5	11.92
Aug. 14	12.63	Mar. 10	10.50	Aug. 3	12.09
Sept. 18	12.67	Apr. 8	10.68	Sept. 5	12.22
Oct. 17	12.56	May 6	11.07	Oct. 2	12.13
Nov. 21	11.97	June 10	11.38	Nov. 9	11.80

26S/40E-14H1. Depth 18.0 ft. Altitude 2,195.4 ft.

July 5, 1956	12.03	Dec. 18, 1957	9.80	July 9, 1959	9.94
Aug. 8	12.21	Feb. 5, 1958	9.00	Aug. 5	10.30
Sept. 14	12.23	Mar. 5	8.62	Sept. 15	10.57
Oct. 11	12.18	Apr. 7	8.58	Oct. 20	10.54
Nov. 14	11.99	May 15	9.06	Nov. 18	10.68
Dec. 20	11.64	June 19	9.82	Dec. 16	10.40
Jan. 24, 1957	11.26	July 15	10.19	Jan. 19, 1960	9.56
Feb. 19	11.09	Aug. 18	10.20	Feb. 24	8.76
Mar. 22	11.02	Sept. 16	10.71	Mar. 30	9.08
May 2	11.19	Dec. 10	9.13	May 4	9.76
June 18	11.38	Jan. 14, 1959	8.80	June 1	10.25
July 18	11.57	Feb. 11	8.16	July 5	10.61
Aug. 14	11.70	Mar. 10	8.04	Aug. 3	10.89
Sept. 18	11.84	Apr. 8	8.17	Sept. 5	11.16
Oct. 17	11.83	May 6	8.30	Oct. 2	11.07
Nov. 21	10.64	June 10	9.40	Nov. 9	10.35

26S/40E-15El. Depth 110.1 ft. Altitude 2,223.1 ft.

Date	Water level	Date	Water level	Date	Water level	
	1920	50	Feb. 16, 1956	47.90	June 19, 1958	47.13
	1921	48.5	Mar. 20	47.88	July 15	47.12
Feb. 3, 1946	50.6	Apr. 18	47.85	Aug. 18	47.13	
May 12, 1952	48.92	May 16	47.79	Sept. 16	47.08	
Mar. 31, 1953	48.68	June 14	47.79	Nov. 3	47.09	
July 6	48.59	July 16	47.76	Dec. 9	47.08	
Oct. 20	48.52	Aug. 9	47.75	Jan. 14, 1959	47.05	
Nov. 24	48.57	Sept. 12	47.70	Feb. 11	47.00	
Dec. 16	48.45	Oct. 11	47.68	Mar. 10	46.99	
Jan. 20, 1954	48.44	Nov. 15	47.68	Apr. 8	46.98	
Mar. 16	48.37	Dec. 20	47.63	May 6	46.95	
Sept. 27	48.20	Jan. 25, 1957	47.59	June 10	46.92	
Nov. 30	48.27	Feb. 19	47.55	July 9	46.91	
Dec. 23	48.24	Mar. 22	47.55	Aug. 5	46.88	
Jan. 26, 1955	48.24	May 1	47.50	Sept. 15	46.86	
Mar. 3	48.19	June 18	47.47	Oct. 20	46.84	
Apr. 4	48.13	July 19	47.45	Nov. 18	46.81	
May 6	48.12	Aug. 14	47.40	Dec. 16	46.80	
June 13	48.09	Sept. 17	47.34	Jan. 20, 1960	46.80	
July 19	48.07	Oct. 17	47.38	Feb. 25	46.73	
Aug. 29	48.00	Nov. 21	47.32	Mar. 30	46.70	
Sept. 29	47.99	Dec. 18	47.29	May 4	46.70	
Oct. 14	48.00	Feb. 5, 1958	47.29	June 1	46.66	
Nov. 16	47.99	Mar. 7	47.14	July 6	46.67	
Dec. 15	47.96	Apr. 7	47.19	Aug. 2	46.64	
Jan. 17, 1956	47.95	May 15	47.16	Sept. 5	46.62	
				Oct. 2	46.63	
				Nov. 9	46.62	

26S/40E-15E2. Depth 197.8 ft. Altitude 2,226.1 ft.

	Date	Water level	Date	Water level	Date	Water level
Jan.	19, 1946	44.0	July 19, 1955	45.29	Mar. 7, 1958	45.01
Apr.	10, 1953	45.66	Aug. 29	45.31	Apr. 7	44.98
	17	45.61	Sept. 29	45.27	May 15	45.19
	24	45.77	Oct. 14	45.29	June 19	45.11
May	1	45.83	Nov. 16	45.39	July 15	45.04
	8	45.62	Dec. 15	45.40	Aug. 18	45.08
	15	45.49	Jan. 17, 1956	45.34	Sept. 16	45.19
	22	45.70	Feb. 16	45.25	Nov. 3	45.15
	29	45.77	Mar. 20	45.37	Dec. 9	45.13
June	4	45.52	Apr. 18	45.30	Jan. 14, 1959	45.14
	22	45.73	May 16	45.36	Feb. 11	44.88
	25	45.60	June 14	45.07	Mar. 10	45.05
Aug.	3	45.51	July 16	45.30	Apr. 8	45.06
	22	45.38	Aug. 9	45.34	May 6	45.08
	27	45.48	Sept. 12	45.21	June 10	45.03
Sept.	22	45.56	Oct. 11	45.10	July 9	45.19
Oct.	20	45.55	Nov. 15	45.32	Aug. 5	45.02
Dec.	16	45.41	Dec. 20	45.26	Sept. 15	45.00
Feb.	4, 1954	45.40	Jan. 25, 1957	45.17	Oct. 20	45.01
Mar.	16	45.27	Feb. 19	45.07	Nov. 18	44.99
Aug.	31	45.41	Mar. 22	45.39	Dec. 16	45.04
Sept.	27	45.27	May 1	45.11	Jan. 20, 1960	45.20
Oct.	26	45.54	June 18	45.30	Feb. 25	44.88
Nov.	30	45.49	July 19	45.24	Mar. 30	44.91
Dec.	23	45.30	Aug. 14	45.20	May 4	44.90
Jan.	26, 1955	45.56	Sept. 17	45.09	June 1	45.01
Mar.	1	45.34	Oct. 17	45.29	July 6	45.10
Apr.	4	45.34	Nov. 21	45.23	Aug. 2	45.01
May	6	45.32	Dec. 18	45.06	Sept. 5	45.03
June	13	45.28	Feb. 5, 1958	45.20	Oct. 2	45.03
					Nov. 9	45.18

26S/40E-15N1. Depth 225 ft. Altitude 2,241.1 ft.

	1921	57.5	Jan.	20, 1954	57.58	Sept.	12, 1956	57.04
Feb.	3, 1946	58.6	Feb.	4	57.55	Sept.	19, 1957	56.90
Apr.	1, 1953	57.72	Mar.	16	57.52	Sept.	17, 1958	56.75
Oct.	20	57.63	Apr.	5, 1955	57.27	Oct.	22, 1959	56.64
Dec.	16	57.59	Oct.	14	57.19	Aug.	4, 1960	56.60

26S/40E-17N1. Depth 178.1 ft. Altitude 2,293.0 ft.

Date	Water level	Date	Water level	Date	Water level	
	1921	87	Feb. 20, 1957	100.05	Feb. 11, 1959	100.61
Jan. 30, 1946	94.0	Mar. 22	99.93	Mar. 10	100.54	
Dec. 19, 1952	101.10	May 1	100.00	Apr. 8	100.66	
Mar. 31, 1953	99.61	June 18	100.30	May 6	100.85	
Oct. 20	102.21	July 19	100.80	June 10	100.61	
Mar. 16, 1954	100.66	Aug. 14	101.17	July 8	100.77	
Sept. 28	101.24	Sept. 17	101.62	Aug. 5	100.88	
Apr. 6, 1955	100.85	Oct. 17	101.26	Sept. 15	100.85	
Oct. 12	101.80	Nov. 20	100.93	Oct. 20	100.75	
Dec. 15	101.12	Dec. 19	100.64	Nov. 18	100.70	
Jan. 16, 1956	100.80	Feb. 5, 1958	100.29	Dec. 16	100.64	
Mar. 20	100.42	Mar. 5	100.23	Jan. 20, 1960	100.54	
Apr. 18	100.24	Apr. 7	100.07	Feb. 25	100.40	
May 16	100.20	May 15	100.34	Mar. 30	100.31	
June 15	100.15	June 18	100.85	May 4	100.21	
July 17	100.70	July 15	101.23	June 2	100.25	
Aug. 9	100.97	Aug. 18	101.35	July 6	100.55	
Sept. 12	101.44	Sept. 15	101.17	Aug. 2	100.79	
Oct. 12	101.22	Nov. 3	101.17	Sept. 5	100.91	
Nov. 14	100.70	Dec. 10	101.08	Oct. 2	100.89	
Dec. 20	100.45	Jan. 14, 1959	100.81	Nov. 9	100.91	
Jan. 24, 1957	100.21					

26S/40E-18E1. Depth 119.4 ft. Altitude 2,297.0 ft.

	1920	102	Apr. 24, 1953	96.97	Oct. 20, 1953	97.12
	1921	96	May 4	97.01	Jan. 14, 1954	97.17
Apr. 29, 1946	95		8	97.05	Sept. 17, 1958	97.78
Dec. 18, 1952	97.00		15	97.05	Oct. 21, 1959	98.11
Mar. 31, 1953	96.98		June 3	97.09		

26S/40E-18N1. Depth 157.9 ft; 554.7 ft after April 5, 1955.  
Altitude 2,316.1 ft.

	1921	108	July 21, 1954	a125.05	May 7, 1955	120.32
Jan. 19, 1946	114.0		Aug. 31	124.07	June 13	119.44
Mar. 31, 1953	121.91		Sept. 27	123.45	July 19	119.14
Apr. 24	122.72		Oct. 26	123.18	Aug. 29	119.48
June 2	123.57		Nov. 30	123.35	Sept. 29	119.31
Oct. 20	124.68		Dec. 23	122.82	Oct. 14	119.24
Nov. 24	123.47		Jan. 25, 1955	122.67	Nov. 16	118.96
Jan. 14, 1954	a125.13		Mar. 3	123.58	Dec. 15	118.87
Mar. 16	123.10		Apr. 5	124.28	Oct. 10, 1956	118.68
Apr. 15	123.62			e266	Sept. 20, 1957	118.87
May 13	123.83			f150.80	Sept. 17, 1958	119.18
June 21	124.41			f131.50	Oct. 21, 1959	121.10

See footnotes at end of table.

26S/40E-19NL. Depth 306 ft. Altitude 2,337.7 ft.

Date	Water level	Date	Water level	Date	Water level	
	1912	127.8	Feb. 19, 1953	146.11	Apr. 1, 1953	a149.90
Sept. 7, 1945	137.3	20	145.85	Oct. 20	149.02	
Oct. 8, 1946	146.0	25	145.63	Mar. 16, 1954	a148.02	
July 28, 1947	150.0	26	145.56	17	146.81	
June 3, 1948	157	27	145.36	Sept. 28	a148.29	
May 26, 1949	147	28	145.28	Apr. 4, 1955	147.03	
June --, 1950	157	Mar. 1	145.20	Oct. 15	148.07	
Apr. 24, 1952	147.09	2	145.33	Sept. 13, 1956	150.68	
July 14	b180.7	5	a147.25	Sept. 20, 1957	147.60	
Feb. 16, 1953	c183.7	6	145.39	Sept. 17, 1958	146.99	
	17	7	145.31	Sept. 17, 1959	145.79	
	146.55	16	144.80	Aug. 4, 1960	147.36	
	146.13					

26S/40E-19PL. Depth 261.0 ft. Altitude 2,336.0 ft.

Feb. 20, 1946	135.9	Mar. 14, 1953	144.0	Oct. 14, 1955	147.01
Apr. 24, 1952	145.11	18	146.64	Sept. 13, 1956	147.50
July 14	b165.37	Apr. 8	147.56	Sept. 18, 1957	146.66
Feb. 20, 1953	144.98	Oct. 20	147.34	Sept. 18, 1958	145.96
26	144.49	Mar. 16, 1954	a148.89	Oct. 21, 1959	144.73
Mar. 3	145.22	17	147.31	Aug. 4, 1960	145.40
4	a145.24	Sept. 28	a148.32		
6	144.28	Apr. 5, 1955	145.56		

26S/40E-20GL. Depth 97.6 ft. Altitude 2,287.6 ft.

May 13, 1952	89.09	Aug. 22, 1953	f93.04	Feb. 3, 1954	f89.38
Dec. 18	89.19	26	f92.77	Mar. 16	89.35
Apr. 1, 1953	89.20	Sept. 22	f91.35	Apr. 16	89.33
May 25	89.24	Oct. 20	f90.43	Nov. 30	89.47
July 7	89.26	Nov. 24	f89.79	Sept. 17, 1958	90.37
Aug. 17	89.28	Dec. 17	f89.57	Sept. 17, 1959	90.50
18	f93.35	Jan. 20, 1954	f89.40	Aug. 4, 1960	90.60

See footnotes at end of table.

26S/40E-20M1. Depth 190.1 ft. Altitude 2,311.9 ft.  
 (Measurements for 1945 by U.S. Navy)

Date	Water level	Date	Water level	Date	Water level
Sept. 7, 1945	112.0	July 19, 1955	122.40	Dec. 19, 1957	122.16
7	125.0	Aug. 29	122.86	Feb. 5, 1958	121.99
Apr. 24, 1952	137.73	Sept. 29	122.81	Mar. 7	121.71
July 14	120.55	Oct. 14	122.67	Apr. 8	121.73
Sept. 8	121.16	Nov. 16	122.45	May 12	121.76
Oct. 8	120.80	Dec. 14	122.09	June 19	122.29
Feb. 17, 1953	120.65	Jan. 16, 1956	121.86	July 14	122.30
Apr. 2	120.67	Feb. 16	121.74	Aug. 18	122.36
June 1	120.76	Mar. 20	121.89	Sept. 18	122.38
23	120.94	Apr. 17	121.58	Dec. 10	122.56
Oct. 23	121.44	May 16	121.56	Jan. 14, 1959	122.27
Nov. 24	121.41	June 14	121.54	Feb. 11	122.14
Feb. 2, 1954	121.39	July 16	121.94	Mar. 10	122.01
Mar. 16	121.24	Aug. 8	122.20	Apr. 8	122.22
Apr. 16	121.74	Sept. 14	122.60	May 6	122.36
May 13	121.50	Oct. 11	122.19	June 10	122.24
June 21	121.92	Nov. 15	122.11	July 8	122.47
July 21	122.06	Dec. 20	121.74	Aug. 5	122.39
Aug. 30	122.00	Jan. 25, 1957	121.12	Oct. 21	122.40
Sept. 28	121.88	Feb. 19	121.46	Nov. 19	122.30
Oct. 26	122.04	Mar. 21	121.34	Dec. 16	122.30
Nov. 30	121.93	May 1	121.38	Jan. 19, 1960	122.30
Dec. 23	121.77	June 17	121.68	Feb. 24	122.25
Jan. 25, 1955	121.39	July 19	121.93	Mar. 30	122.05
Mar. 3	121.60	Aug. 14	122.37	May 4	122.08
Apr. 6	121.84	Sept. 18	122.54	June 1	122.31
May 6	121.72	Oct. 17	122.38	July 6	122.46
June 13	122.12	Nov. 20	122.19	Aug. 2	122.53
				Sept. 5	122.43
				Nov. 9	122.76

See footnotes at end of table.

26S/40E-22N1. Depth 203.2 ft. Altitude 2,261.4 ft.

Date	Water level	Date	Water level	Date	Water level
1912	64.0	June 13, 1955	75.09	Mar. 5, 1958	74.31
Jan. 25, 1946	70.0	July 19	76.82	Apr. 7	74.37
July 15, 1952	79.5	Aug. 30	78.25	May 13	75.50
Sept. 8	77.17	Sept. 29	77.54	June 18	76.86
Mar. 31, 1953	74.03	Oct. 13	77.22	July 15	79.88
June 22	76.23	Nov. 15	76.45	Aug. 18	78.05
29	76.2	Dec. 14	76.74	Sept. 16	75.95
July 9	76.58	Jan. 16, 1956	74.39	Nov. 3	74.30
Aug. 1	77.70	Mar. 19	75.13	Dec. 9	73.58
27	78.46	Apr. 17	74.71	Jan. 14, 1959	73.06
Sept. 22	78.40	May 16	74.79	Feb. 10	72.01
Oct. 21	77.41	June 14	75.19	Mar. 10	70.85
Nov. 23	76.21	July 16	75.83	Apr. 8	70.43
Dec. 17	75.08	Aug. 9	76.01	May 6	70.22
Jan. 15, 1954	74.38	Sept. 12	76.56	June 10	70.15
Mar. 16	74.88	Oct. 12	76.33	July 8	70.38
Apr. 15	73.32	Nov. 13	74.70	Aug. 5	71.42
May 13	74.87	Dec. 20	75.85	Sept. 15	72.67
June 21	75.36	Jan. 25, 1957	75.50	Oct. 20	72.85
July 21	76.84	Feb. 20	74.68	Nov. 18	72.69
Aug. 31	78.10	Mar. 22	74.52	Dec. 16	72.52
Sept. 27	77.03	May 1	74.86	Jan. 20, 1960	72.31
Oct. 26	76.20	June 18	77.46	Feb. 25	72.19
Nov. 29	74.34	July 19	79.03	Mar. 30	72.23
Dec. 23	73.69	Aug. 13	77.27	May 4	72.30
Jan. 24, 1955	73.48	Sept. 17	76.29	June 2	72.50
Mar. 3	72.96	Oct. 17	75.89	July 6	73.07
Apr. 5	73.82	Nov. 20	75.30	Aug. 3	73.33
6	73.47	Dec. 19	74.61	Sept. 5	73.44
May 6	74.24	Feb. 5, 1958	73.83	Oct. 3	73.35
				Nov. 8	71.74

26S/40E-22Pl. Depth 830.0 ft, pilot hole drilled to 1,358 ft.  
Altitude 2,258.7 ft.

	Water level	Date		Water level	Date		Water level
Mar. 8, 1954	64.39	May 16, 1956		65.82	Aug. 18, 1958		67.02
16	64.36	June 14		65.78	Sept. 17		67.31
Apr. 16	64.36	July 16		65.91	Nov. 3		67.55
May 13	64.28	Aug. 9		65.99	Dec. 9		67.72
June 21	64.31	Sept. 12		66.15	Jan. 14, 1959		67.66
July 21	64.45	Oct. 12		66.42	Feb. 10		67.47
Aug. 31	64.61	Nov. 13		66.35	Mar. 10		67.41
Sept. 29	64.59	Dec. 20		66.41	Apr. 8		67.34
Oct. 26	64.81	Jan. 25, 1957		66.18	May 6		67.34
Nov. 29	64.73	Feb. 20		66.15	June 10		67.30
Dec. 23	64.81	Mar. 22		66.20	July 9		67.54
Jan. 24, 1955	64.94	May 1		66.15	Aug. 5		67.82
Mar. 3	64.86	June 18		66.25	Sept. 15		68.31
Apr. 6	64.89	July 19		66.33	Oct. 20		68.44
May 6	64.92	Aug. 13		66.60	Nov. 18		68.46
June 13	64.95	Sept. 18		66.70	Dec. 16		68.35
July 19	65.05	Oct. 17		66.66	Jan. 20, 1960		68.18
Aug. 30	65.43	Nov. 20		66.64	Feb. 25		67.91
Sept. 29	65.64	Dec. 19		66.56	Mar. 30		67.84
Nov. 15	65.68	Feb. 5, 1958		66.35	May 4		67.75
Dec. 14	65.75	Mar. 5		66.22	June 1		67.83
Jan. 16, 1956	65.69	Apr. 7		66.17	July 6		68.14
Feb. 16	65.69	May 13		66.34	Aug. 3		69.46
Mar. 19	65.79	June 18		66.46	Sept. 5		68.79
Apr. 17	65.70	July 15		66.54	Oct. 3		68.95
					Nov. 9		68.98

26S/40E-23Cl. Depth 40.2 ft. Altitude 2,213.8 ft.

	Date	Water level		Date	Water level		Date	Water level
May	21, 1953	28.87	Oct.	14, 1955	24.41	Apr.	8, 1958	23.49
	27	28.90	Nov.	16	24.10	May	15	23.41
June	22	29.00	Dec.	15	23.85	June	19	23.25
July	6	29.04	Jan.	17, 1956	23.58	July	15	23.32
	9	28.98	Feb.	16	23.44	Aug.	18	23.31
Sept.	22	29.10	Mar.	20	23.45	Sept.	17	23.37
Oct.	20	29.07	Apr.	18	23.49	Dec.	10	23.23
Dec.	16	28.22	May	16	23.65	Jan.	14, 1959	23.14
Jan.	21, 1954	27.86	June	14	23.68	Feb.	11	23.07
Feb.	16	27.63	July	16	23.86	Mar.	10	23.12
Mar.	16	27.49	Aug.	8	23.87	Apr.	8	23.17
Apr.	16	27.77	Sept.	13	23.66	May	6	23.28
May	13	27.77	Oct.	11	23.44	June	10	23.01
June	22	27.68	Nov.	14	23.28	July	10	23.05
July	21	27.60	Dec.	20	23.05	Aug.	5	23.08
Aug.	31	27.29	Jan.	24, 1957	22.89	Sept.	16	23.11
Sept.	28	27.09	Feb.	19	22.72	Oct.	10	22.34
Oct.	26	27.05	Mar.	22	22.82	Nov.	18	21.88
Nov.	30	27.05	May	2	22.96	Dec.	16	21.69
Dec.	23	26.66	June	18	23.26	Jan.	19, 1960	21.68
Jan.	25, 1955	26.62	July	18	23.35	Feb.	24	21.80
Mar.	3	26.62	Aug.	14	23.46	Mar.	30	21.88
Apr.	5	25.97	Sept.	18	23.52	May	4	21.89
May	6	25.63	Oct.	17	23.47	June	1	22.04
June	12	25.35	Nov.	21	23.38	July	5	22.10
July	19	25.40	Dec.	18	23.38	Aug.	3	22.21
Aug.	29	25.04	Feb.	5, 1958	23.50	Sept.	5	22.19
Sept.	29	24.62	Mar.	5	23.44	Oct.	2	22.27
						Nov.	9	22.39

26S/40E-24Cl. Depth 45.4 ft. Altitude 2,212.0 ft.

	Date	Water level		Date	Water level		Date	Water level
May	21, 1953	31.04	Aug.	8, 1956	29.60	Sept.	17, 1958	28.43
	27	31.04	Sept.	13	29.56	Dec.	10	28.34
June	22	31.08	Oct.	11	29.45	Jan.	14, 1959	28.26
July	8	31.05	Nov.	14	29.43	Feb.	11	28.16
	9	31.07	Dec.	20	29.35	Mar.	10	28.12
Sept.	22	31.13	Jan.	24, 1957	29.21	Apr.	8	28.08
Oct.	20	31.08	Feb.	19	29.09	May	6	28.07
Dec.	16	30.95	Mar.	22	29.09	June	10	28.12
Jan.	21, 1954	30.97	May	2	28.98	July	9	28.21
Feb.	16	30.91	June	18	29.00	Aug.	5	28.20
Mar.	16	30.77	July	18	28.88	Sept.	15	28.19
Sept.	28	30.48	Aug.	14	28.89	Oct.	20	28.22
Apr.	6, 1955	30.01	Sept.	18	28.89	Nov.	18	28.26
Oct.	14	29.80	Oct.	17	28.89	Dec.	16	28.29
Nov.	16	29.75	Nov.	21	28.84	Jan.	19, 1960	28.27
Dec.	15	29.71	Dec.	18	28.72	Feb.	24	28.20
Jan.	17, 1956	29.70	Feb.	5, 1958	28.68	Mar.	30	28.16
Feb.	16	29.64	Mar.	5	28.55	May	4	28.15
Mar.	20	29.65	Apr.	8	28.50	June	1	28.28
Apr.	18	29.62	May	15	28.41	July	5	28.32
May	16	29.63	June	19	28.40	Aug.	3	28.40
June	14	29.59	July	15	28.42	Sept.	5	28.45
July	16	29.63	Aug.	18	28.40	Oct.	2	28.50
						Nov.	9	28.51

26S/40E-24R1. Depth 149.1 ft in 1954. Altitude 2,260.4 ft.

Mar.	8, 1954	74.19	Oct.	26, 1954	74.05	July	19, 1955	73.90
	9	74.59	Nov.	30	73.97	Aug.	29	73.96
	16	73.34	Dec.	23	73.53	Sept.	29	74.13
Apr.	15	74.15	Jan.	26, 1955	74.81	Oct.	14	73.93
May	13	74.06	Mar.	3	74.88	Nov.	16	74.02
June	22	74.03	Apr.	6	73.78	Dec.	15	74.05
July	21	74.04	May	6	73.73	Jan.	17, 1956	74.09
Aug.	31	74.04	June	13	73.85	Sept.	13	Destroyed
Sept.	28	74.04						

26S/40E-26B1. Depth 49.1 ft in 1953. Altitude 2,229.4 ft.

May	12, 1953	37.39	Aug.	5, 1953	35.54	Apr.	15, 1954	35.46
	13	35.62	Sept.	22	35.45	Sept.	28	35.27
	20	35.64	Oct.	20	35.43	Apr.	6, 1955	35.29
	21	35.63	Dec.	16	35.35	Oct.	14	34.73
June	3	35.63	Jan.	20, 1954	35.26	Sept.	13, 1956	34.57
	23	35.61	Feb.	16	35.37	Sept.	20, 1957	Destroyed
July	8	35.46	Mar.	16	35.41			

26S/40E-26R1. Depth 60.8 ft in 1953. Altitude 2,229.4 ft.

	Date	Water level		Date	Water level		Date	Water level
May	20, 1953	37.33		Sept. 22, 1953	37.37		Apr. 15, 1954	37.52
	21	37.42		Oct. 20	37.39		Sept. 28	37.59
June	3	37.32		Dec. 16	37.44		Apr. 6, 1955	37.70
	23	37.31		Jan. 20, 1954	37.45		Oct. 14	37.72
July	8	37.28		Feb. 16	37.48		Sept. 13, 1956	37.97
Aug.	5	37.37		Mar. 17	37.50		Sept. 20, 1957	Destroyed

26S/40E-27N1. Depth 248.2 ft. Altitude 2,289.5 ft.

May	19, 1952	99.96	July	19, 1955	104.43	Feb.	5, 1958	104.54
July	18	101.85	Aug.	29	105.92	Mar.	6	105.53
	31	101.73	Sept.	29	105.33	Apr.	8	104.57
Sept.	8	101.58	Oct.	14	104.90	May	15	105.10
Oct.	8	101.50	Nov.	16	104.38	June	19	106.22
	22	101.43	Dec.	15	104.31	July	15	109.72
Dec.	9	101.11	Jan.	17, 1956	104.29	Aug.	18	110.66
Feb.	17, 1953	100.95	Feb.	16	104.07	Sept.	17	108.63
Apr.	2	102.09	Mar.	20	103.91	Dec.	9	106.42
June	25	102.01	Apr.	17	103.88	Jan.	14, 1959	105.95
Aug.	19	102.85	May	16	104.25	Feb.	11	105.48
Oct.	20	102.21	June	14	104.76	Mar.	10	105.50
Nov.	24	101.95	July	16	105.89	Apr.	8	105.82
Dec.	17	101.90	Aug.	9	105.39	May	7	106.09
Jan.	15, 1954	101.46	Sept.	13	108.61	June	10	106.65
Mar.	17	101.22	Oct.	11	106.61	July	9	108.99
Apr.	16	101.67	Nov.	14	105.43	Aug.	5	111.53
May	13	101.94	Dec.	20	104.86	Sept.	15	112.60
July	21	103.22	Jan.	24, 1957	104.59	Oct.	20	109.24
Aug.	31	103.33	Feb.	20	104.27	Nov.	19	107.48
Sept.	28	103.24	Mar.	22	104.42	Dec.	16	107.12
Oct.	26	103.11	May	2	104.90	Jan.	20, 1960	106.65
Nov.	30	102.54	June	18	105.67	Feb.	25	106.54
Dec.	23	102.30	July	18	109.19	Mar.	30	106.76
Jan.	26, 1955	102.05	Aug.	14	108.74	May	4	106.87
Mar.	3	102.14	Sept.	18	106.26	June	2	107.38
Apr.	6	102.27	Oct.	17	105.67	July	6	111.78
May	6	102.59	Nov.	21	105.19	Aug.	3	109.73
June	13	103.43	Dec.	18	104.92	Sept.	5	108.23
						Oct.	3	108.01
						Nov.	9	108.97

26S/40E-28A2. Depth 117.5 ft. Altitude 2,269.8 ft.

Date	Water level	Date	Water level	Date	Water level
Dec. 20, 1952	86.17	Dec. 17, 1953	85.58	Oct. 14, 1955	87.72
Apr. 2, 1953	84.39	Mar. 16, 1954	82.36	Sept. 12, 1956	85.94
Oct. 19	a88.82	Sept. 28	89.85	Oct. 17, 1957	84.85
19	88.96	Apr. 6, 1955	82.85	Sept. 17, 1958	83.17
Nov. 23	86.04	Aug. 29	89.21		

26S/40E-28A3. Altitude 2,269.4 ft.

Dec. 20, 1952	86.15	Sept. 19, 1957	87.75	Aug. 3, 1960	81.20
Apr. 2, 1953	84.75	Jan. 21, 1960	79.87		

26S/40E-28C1. Depth 147 ft. Altitude 2,278.9 ft.

Dec. 10, 1952	98.43	Oct. 19, 1953	d109.37	Mar. 16, 1954	96.59
Apr. 2, 1953	100.00	19	d107.72		

26S/40E-28G1. Depth 194.5 ft. Altitude 2,281.1 ft.

Dec. 15, 1952	93.12	Dec. 13, 1953	94.91	June 22, 1954	95.77
Apr. 2, 1953	94.56	Jan. 15, 1954	93.95	July 21	98.70
Oct. 19	97.32	Mar. 16	96.59	Jan. 20, 1960	94.32
Nov. 23	95.32	Apr. 16	92.56		

26S/40E-28H2. Depth 153.0 ft in 1952, 60 ft in 1956. Altitude 2,280.1 ft.

May -- 1952	g100.4	Nov. 23, 1953	100.77	Apr. 6, 1955	98.50
Dec. 11	98.45	Dec. 13	98.36	Oct. 14	100.94
Apr. 3, 1953	a106.80	Jan. 15, 1954	95.97	Sept. 12, 1956	Destroyed
3	100.60	Mar. 16	90.28		
Oct. 19	a109.94	Sept. 28	105.13		

26S/40E-28H3. Depth 207 ft in 1952. Altitude 2,270.6 ft.

Dec. 11, 1952	84.34	Mar. 16, 1954	81.54	Nov. 14, 1955	85.07
Apr. 3, 1953	85.56	Sept. 28	88.39	Sept. 12, 1956	83.78
Oct. 19	88.11	Apr. 6, 1955	81.58	Sept. 18, 1957	Destroyed

See footnotes at end of table.

26S/40E-28J1. Altitude 2,288.9 ft.

Date	Water level	Date	Water level	Date	Water level
Dec. 30, 1948	g98.3	Sept. 28, 1954	109.00	Mar. 6, 1958	105.64
30	c g130.3	Nov. 6	104.21	Sept. 17, 1958	110.32
Dec. 15, 1952	101.16	Oct. 14, 1955	106.66	Mar. 10, 1959	102.35
Apr. 2, 1953	103.68	Mar. 20, 1956	105.37	Jan. 21, 1960	104.71
Oct. 19	104.15	Sept. 12	112.33	Feb. 25	106.11
Jan. 15, 1954	101.52	Mar. 8, 1957	105.10	Aug. 3	113.36
Mar. 16	100.98	Sept. 18	109.91	Nov. 9	106.46

26S/40E-30C1. Altitude 2,339.7 ft.

May 20, 1952	149.21	Mar. 17, 1954	149.72	Oct. 10, 1956	150.05
Apr. 1, 1953	148.15	Sept. 28	150.80	Sept. 18, 1957	150.43
Oct. 20	151.24	Apr. 6, 1955	a149.96	Sept. 17, 1958	148.7
Mar. 16, 1954	149.9	Oct. 12	a151.30	Aug. 4, 1960	149.30

26S/40E-30E2. Depth 402 ft. Altitude 2,342.8 ft.

May 18, 1953	c152	Mar. 17, 1954	152.58	Sept. 32, 1957	156.44
Oct. 20	c158.82	Sept. 28	162.22	Sept. 17, 1958	155.26
Dec. 17	153.84	Apr. 6, 1955	161.82	Aug. 4, 1960	155.20
Mar. 16, 1954	d153.10	Oct. 10, 1956	151.57		

26S/40E-30Q1. Depth 209.2 ft. Altitude 2,353.1 ft.

Apr. 9, 1953	159.79	Apr. 6, 1955	161.82	Sept. 17, 1958	162.64
Oct. 20	161.34	Oct. 12	163.02	Aug. 4, 1960	163.73
Mar. 16, 1954	161.09	Oct. 11, 1956	161.76		
Sept. 28	162.22	Sept. 18, 1957	162.52		

26S/40E-31D1. Depth 210 ft. Altitude 2,374.1 ft.

1912	164.2	Apr. 2, 1953	179.82	Mar. 16, 1954	180.59
May 20, 1952	179.22	Oct. 20	180.68	Apr. 6, 1955	181.29

26S/40E-32D1. Depth 279 ft. Altitude 2,340.9 ft.

Apr. 30, 1946	141.2	Apr. 2, 1953	148.64	Oct. 12, 1955	151.71
May 21, 1952	148.01	June 23	148.96	Sept. 12, 1956	152.12
July 14	148.44	Oct. 19	149.58	Sept. 18, 1957	152.95
Sept. 8	148.47	Mar. 16, 1954	149.40	Sept. 17, 1958	154.02
Oct. 8	148.60	Sept. 28	150.73	Aug. 3, 1960	155.55
Feb. 17, 1953	148.56	Apr. 6, 1955	150.78		

See footnotes at end of table.

26S/40E-32El. Depth 300 ft. Altitude 2,350 ft.

		Water level		Date	Water level		Date	Water level
June	23, 1953	158.32		Oct. 19, 1953	158.86		Aug. 3, 1960	164.25
	24	c158.54		Mar. 16, 1954	158.84			

26S/40E-32Nl. Depth 391 ft. Altitude 2,368.0 ft.

Dec.	20, 1950	191.11	Apr.	2, 1953	177.92	Oct.	12, 1955	180.72
May	21, 1952	177.29	June	23	178.17	Sept.	12, 1956	181.55
July	14	181.20	Oct.	19	178.58	Sept.	18, 1957	182.47
Sept.	8	177.64	Mar.	16, 1954	179.52	Sept.	17, 1958	177.30
Oct.	8	177.74	Sept.	28	179.44	Aug.	3, 1960	185.16
Feb.	17	177.82	Apr.	6, 1955	179.91			

26S/40E-33A1. Depth 400 ft. Altitude 2,305.5 ft.

Dec.	15, 1952	116.72	Sept.	28, 1954	120.65	Sept.	18, 1957	122.43
Apr.	2, 1953	118.91	Apr.	6, 1955	d121.1	Sept.	17, 1958	127.29
Oct.	21	118.58	Oct.	14	124.0	Jan.	20, 1960	124.79
Mar.	16, 1954	117.80	Oct.	11, 1956	123.82			

26S/40E-33A2. Depth 350 ft. Altitude 2,293.9 ft.

Dec.	15, 1952	105.21	Sept.	28, 1954	108.42	Sept.	17, 1958	115.04
Apr.	2, 1953	106.97	Apr.	6, 1955	107.16	Jan.	21, 1960	114.12
Oct.	19	107.10	Oct.	14	110.05	July	29	118.06
Mar.	16, 1954	106.30	Sept.	18, 1957	114.98			

26S/40E-33P1. Depth 400 ft in 1952. Altitude 2,311.9 ft.

May	26, 1952	125.79	Feb.	17, 1953	125.80	Apr.	6, 1954	131.73
July	14	a128.46	Apr.	2	126.94	Oct.	15, 1955	133.22
Sept.	8	c135.08	June	23	c137.73	Sept.	12, 1956	137.40
Oct.	8	b131.68	Mar.	16, 1954	130.51	Sept.	17, 1958	Destroyed

26S/40E-33P3. Altitude 2,314.0 ft.

Jan.	31, 1951	128	Oct.	19, 1953	129.20	Sept.	12, 1956	136.91
	31	c132	Mar.	16, 1954	127.73	Sept.	17, 1958	139.53
July	18, 1952	c134.62	Sept.	30	d132.12	Jan.	21, 1960	139.00
	18	129.44	Apr.	6, 1955	131.10			
Apr.	2, 1953	127.52	Oct.	15	133.36			

See footnotes at end of table.

26S/40E-34NL. Depth 232 ft. Altitude 2 290.4 ft.  
 (Measurements from 1945 to 1951 by U.S. Navy)

Date	Water level	Date	Water level	Date	Water level
Jan. 20, 1945	96	May 6, 1955	105.67	Feb. 8, 1958	108.00
Sept. 7	106.5	June 13	106.64	Mar. 6	108.02
Apr. 30, 1946	108.2	Aug. 30	111.95	Apr. 8	108.29
July 28, 1947	102.3	Sept. 30	108.97	May 15	108.49
Feb. 14, 1948	101	Oct. 14	108.28	June 13	110.03
Oct. 28	110	Nov. 16	107.57	Sept. 18	113.49
Feb. -- 1949	110	Dec. 14	107.83	Dec. 10	110.87
Apr. 18, 1950	108	Feb. 16, 1956	107.24	Jan. 14, 1959	109.72
Nov. 29	114	Mar. 20	107.20	Feb. 11	109.62
Aug. 19, 1953	105.55	Apr. 17	107.12	Mar. 9	109.53
Oct. 20	105.02	May 16	107.44	Apr. 8	110.02
Nov. 24	104.84	June 14	103.16	May 6	110.67
Dec. 17	104.52	July 17	109.85	June 10	111.18
Jan. 15, 1954	103.91	Aug. 9	108.87	Sept. 16	114.54
Mar. 16	103.94	Oct. 11	110.90	Oct. 20	112.75
Apr. 16	104.49	Nov. 14	109.25	Nov. 19	112.04
May 13	104.80	Dec. 19	108.58	Dec. 16	111.55
June 22	107.15	Jan. 24, 1957	108.20	Jan. 20, 1960	111.10
July 21	105.90	Feb. 19	107.86	Feb. 25	110.54
Aug. 31	106.33	Mar. 22	108.02	Mar. 30	111.21
Sept. 28	106.09	May 2	108.43	May 4	111.16
Oct. 26	105.97	June 18	108.94	June 1	112.05
Nov. 30	105.55	Aug. 14	112.72	July 6	115.00
Dec. 23	105.04	Sept. 18	110.03	Aug. 3	113.25
Jan. 25, 1955	104.69	Oct. 18	109.40	Sept. 5	112.74
Mar. 3	104.87	Nov. 21	109.14	Oct. 2	112.67
Apr. 4	105.00	Dec. 19	108.54	Nov. 9	111.98

26S/40E-36A1. Depth 270.2 ft. Altitude 2,247.2 ft.

	Date	Water level		Date	Water level		Date	Water level
Mar.	8, 1954	57.40	Apr.	18, 1956	57.81	July	15, 1958	58.15
	9	56.82	May	16	57.85	Aug.	18	58.19
	17	56.85	June	14	57.88	Sept.	17	58.20
Apr.	15	56.84	July	16	57.93	Dec.	10	58.33
May	13	56.85	Aug.	9	57.97	Jan.	14, 1959	58.27
June	22	56.89	Sept.	13	57.99	Feb.	11	58.28
July	21	56.92	Oct.	11	58.06	Mar.	10	58.30
Aug.	31	56.94	Nov.	14	58.09	Apr.	8	58.28
Sept.	28	56.95	Dec.	20	58.13	May	7	58.27
Oct.	26	56.99	Jan.	24, 1957	58.16	June	10	58.29
Nov.	30	57.05	Feb.	20	58.18	July	9	58.29
Dec.	23	57.06	Mar.	22	58.16	Aug.	5	58.28
Jan.	26, 1955	57.12	May	2	58.16	Sept.	16	58.35
Mar.	3	57.14	June	19	58.15	Oct.	20	58.37
Apr.	6	57.19	July	19	58.15	Nov.	19	58.37
May	6	57.19	Aug.	14	58.16	Dec.	16	58.43
June	13	57.25	Sept.	18	58.18	Jan.	20, 1960	58.46
July	19	57.48	Oct.	17	58.18	Feb.	25	58.45
Aug.	29	57.34	Nov.	21	58.21	Mar.	30	58.45
Sept.	29	57.41	Dec.	18	58.28	May	4	58.48
Oct.	14	57.47	Feb.	5, 1958	58.24	June	2	58.50
Nov.	16	57.48	Mar.	6	58.22	July	6	58.50
Dec.	15	57.55	Apr.	8	58.21	Aug.	3	58.50
Jan.	17, 1956	57.67	May	15	58.22	Sept.	5	58.55
Feb.	16	57.75	June	19	58.16	Oct.	2	58.60
Mar.	20	57.78				Nov.	9	58.59

26S/41E-6A1. Depth 10.6 ft in 1953. Altitude 2,158.2 ft.

May	21, 1953	4.89	June	24, 1953	5.01	Nov.	14, 1953	5.72
	23	4.90	Sept.	22	5.45	Feb.	3, 1954	5.32
	27	4.95	Oct.	20	5.56	Mar.	16	5.11
						Aug.	27, 1959	Destroyed

26S/41E-7D1. Depth 21.2 ft. Altitude 2,160.2 ft.

Date	Water level	Date	Water level	Date	Water level
July 2, 1956	1.94	Nov. 21, 1957	1.84	June 10, 1959	1.93
Aug. 8	2.94	Dec. 18	2.64	July 9	1.78
Sept. 14	1.87	Feb. 5, 1958	2.92	Aug. 5	1.60
Oct. 11	1.58	Mar. 5	1.37	Sept. 15	1.58
Nov. 15	1.82	Apr. 7	1.18	Oct. 20	1.61
Dec. 20	2.20	May 15	1.15	Nov. 19	1.74
Jan. 24, 1957	2.35	June 19	1.19	Dec. 16	2.01
Feb. 19	3.02	July 15	1.50	Jan. 19, 1960	1.95
Mar. 22	1.97	Aug. 18	1.54	Feb. 24	1.68
May 2	1.83	Sept. 16	1.51	Mar. 30	1.47
June 18	1.92	Dec. 10	.84	May 2	1.42
July 18	1.79	Jan. 14, 1959	1.14	June 1	1.52
Aug. 14	1.89	Mar. 10	1.74	July 5	1.24
Sept. 18	2.04	Apr. 8	1.48	Aug. 2	1.61
Oct. 17	2.13	May 6	1.39	Sept. 5	1.80
				Oct. 2	1.97
				Nov. 9	1.35

26S/41E-7E1. Depth 32.4 ft. Altitude 2,166.5 ft.

May 11, 1953	5.45	Jan. 24, 1957	5.87	Jan. 14, 1959	5.63
21	5.44	Feb. 19	5.80	Feb. 11	5.65
23	5.42	Mar. 22	5.73	Mar. 10	5.60
27	5.45	May 2	5.56	Apr. 8	5.58
June 25	5.44	June 18	5.59	May 6	5.65
July 8	5.44	July 18	5.69	June 10	5.69
Sept. 21	5.75	Aug. 14	5.78	July 9	5.82
Oct. 20	5.82	Sept. 18	5.97	Aug. 5	5.82
Nov. 23	5.87	Oct. 17	5.93	Sept. 15	5.79
Dec. 16	5.95	Nov. 21	5.94	Oct. 20	5.75
Jan. 21, 1954	5.87	Dec. 18	5.91	Nov. 19	5.77
Feb. 3	5.67	Feb. 5, 1958	5.83	Dec. 16	5.70
Mar. 16	5.28	Mar. 5	5.33	Jan. 19, 1960	5.60
Apr. 6, 1955	5.10	Apr. 7	5.27	Feb. 25	5.52
Feb. 16, 1956	5.69	May 15	5.34	Mar. 30	5.50
Aug. 8	5.88	June 19	5.43	May 4	5.53
Sept. 14	5.88	July 15	5.60	June 1	5.66
Oct. 11	5.83	Aug. 18	5.86	July 5	5.63
Nov. 14	6.04	Sept. 16	5.90	Aug. 3	5.91
Dec. 20	5.98	Dec. 10	5.89	Sept. 5	5.98
				Oct. 2	6.03
				Nov. 9	5.63

26S/41E-7G1. Depth 31.3 ft. Altitude 2,177.0 ft.

	Date	Water level	Date	Water level	Date	Water level
May	21, 1953	24.73	Dec. 16, 1953	24.80	Apr. 15, 1954	24.77
	23	24.73	Jan. 21, 1954	24.82	May 13	24.73
	27	24.75	Feb. 3	24.82	Apr. 6, 1955	24.65
June	23	24.73	21	24.81	Sept. 14, 1956	24.62
	8	24.68	23	24.81	Sept. 19, 1957	24.53
Sept.	21	24.74	Mar. 3	24.79	Sept. 17, 1958	24.63
Oct.	20	24.75	8	24.79	Aug. 27, 1959	24.82
	23	24.80	16	24.76		

26S/41E-7G2. Depth 49.3 ft. Altitude 2,181.3 ft.

Feb.	23, 1954	36.42	Apr. 15, 1954	36.38	Sept. 19, 1957	35.94
Mar.	3	36.42	May 13	36.36	Sept. 17, 1958	36.00
	9	36.40	Apr. 6, 1955	36.38	Aug. 27, 1959	36.29
	16	36.40	Sept. 14, 1956	35.99		

27S/38E-1M1. Depth 305.6 ft. Altitude 2,639.0 ft.

	1921	294	Apr. 27, 1953	292.44	Mar. 17, 1954	292.34
Feb.	17, 1946	293.5	Oct. 20	292.46		

27S/39E-7R1. Depth 377 ft. Altitude 2,562.7 ft.

Feb.	18, 1946	347.7	Apr. 2, 1953	347.12	Dec. 9, 1959	350.38
Dec.	12, 1952	347.2	Mar. 17, 1954	347.45		

27S/40E-1G1. Altitude 2,314.1 ft.

May	21, 1952	123.35	Sept. 28, 1954	124.49	Sept. 19, 1957	126.03
Apr.	2, 1953	123.80	Apr. 6, 1955	124.72	Sept. 17, 1958	125.89
Oct.	19	124.12	Oct. 14	125.17	July 25, 1960	141.44
Mar.	16, 1954	124.32	Sept. 12, 1956	125.88		

27S/40E-1G2. Depth 204 ft. Altitude 2,312.6 ft.

	1946	135	Mar. 16, 1954	123.22	Sept. 19, 1957	126.46
May	21, 1952	122.44	Apr. 6, 1955	123.63	Sept. 17, 1958	124.96
Apr.	2, 1953	122.72	Oct. 14	124.07	July 25, 1960	143.40
Oct.	19	122.92	Sept. 12, 1956	124.70		

27S/40E-1K1. Altitude 2,318.1 ft.

	Date	Water level		Date	Water level		Date	Water level
May	21, 1952	127.65	Oct.	19, 1953	128.40	Sept.	12, 1956	130.14
July	14	127.69	Mar.	16, 1954	128.63	Sept.	19, 1957	130.69
Sept.	8	127.78	Sept.	28	128.79	Sept.	17, 1958	130.26
Feb.	17, 1953	128.04	Apr.	6, 1955	129.06	July	25, 1960	130.75
June	23	128.22	Oct.	14	129.50			

27S/40E-1K2. Depth 164 ft. Altitude 2,330 ft.

May	26, 1953	138.78	Mar.	16, 1954	139.22	July	25, 1960	a145.80
Oct.	19	139.47		Sept. 28	140.14			

27S/40E-1M1. Depth 199 ft. Altitude 2,296.3 ft.

	1920	95	June	23, 1953	c106.63	Sept.	12, 1956	109.86
Feb.	21, 1946	104.2	Oct.	19	107.05	Sept.	19, 1957	109.75
May	21, 1952	b105.77	Mar.	16, 1954	107.03	Sept.	17, 1958	109.71
Sept.	8	c106.20	Sept.	28	107.33	July	25, 1960	110.27
Feb.	17, 1953	106.29	Apr.	6, 1955	107.43			
Apr.	3	106.50	Oct.	14	108.77			

27S/40E-3P1. Depth 107.5 ft. Altitude 2,292 ft.

Nov.	30, 1954	79.21	June	13, 1955	77.76	Jan.	17, 1956	76.04
Dec.	23	78.78	July	19	76.59	Sept.	19, 1957	80.06
Jan.	25, 1955	78.36	Aug.	29	75.76	Sept.	17, 1958	84.99
Mar.	3	78.92	Sept.	30	75.56	Jan.	22, 1960	84.64
Apr.	6	80.07	Nov.	16	74.80	July	26	82.56
May	6	79.94	Dec.	15	75.37			

See footnotes at end of table.

27S/40E-3R1. Depth 162.3 ft. Altitude 2,287.3 ft.

	Date	Water level		Date	Water level		Date	Water level
May	22, 1952	92.14	Oct.	11, 1956	97.44	Feb.	11, 1959	95.64
Apr.	2, 1953	93.58	Nov.	14	96.79	Mar.	9	95.43
Oct.	19	94.47	Dec.	19	96.50	Apr.	8	95.55
Jan.	15, 1954	94.03	Jan.	24, 1957	95.69	May	6	95.89
Mar.	16	93.42	Feb.	19	95.25	June	10	96.36
Sept.	27	94.74	Mar.	22	95.28	July	9	96.90
Apr.	6, 1955	94.59	May	2	95.28	Aug.	6	97.42
May	6	95.25	June	18	95.72	Sept.	16	97.42
June	13	96.19	July	19	96.17	Oct.	20	97.20
July	19	96.77	Aug.	14	96.68	Nov.	19	97.00
Aug.	29	97.27	Sept.	18	96.90	Dec.	16	96.74
Sept.	30	97.48	Oct.	18	96.54	Jan.	20, 1960	96.35
Oct.	14	97.19	Nov.	21	96.40	Feb.	25	96.00
Nov.	16	97.12	Dec.	19	96.01	Mar.	30	96.10
Dec.	15	97.06	Feb.	5, 1958	95.51	May	4	96.82
Jan.	17, 1956	96.97	Mar.	6	95.24	June	1	97.22
Feb.	16	97.44	Apr.	8	95.03	July	6	97.73
Mar.	20	96.17	May	15	95.16		26	97.72
Apr.	17	96.09	June	18	95.59	Aug.	3	97.78
May	16	96.51	July	15	96.11	Sept.	5	97.85
June	14	96.89	Aug.	18	96.33	Oct.	2	97.77
July	17	97.34	Sept.	17	96.85	Nov.	9	98.44
Aug.	9	97.41	Dec.	10	96.19			
Sept.	12	97.67	Jan.	14, 1959	95.82			

27S/40E-4B1. Depth 245 ft. Altitude 2,302.6 ft.

Jan.	31, 1951	g121	Apr.	2, 1953	120.24	Sept.	29, 1954	c126.64
	31	c g127	Jan.	20, 1954	118.80	Sept.	17, 1958	a148.40
July	18, 1952	119.29	Mar.	16	a120.0	Jan.	21, 1960	a139.07
Apr.	2, 1953	c122.88	Sept.	28	g119			

27S/40E-4B2. Depth 375 ft. Altitude 2,301.8 ft.

Jan.	31, 1951	c121	Oct.	23, 1953	a123.18	Apr.	6, 1955	a124.29
	31	c g135.5	Jan.	15, 1954	a121.74	Oct.	15	a126.38
July	18, 1952	118.84		20	118.26	Sept.	12, 1956	a130.90
Apr.	2, 1953	c133.70	Mar.	16	a122.21	Sept.	18, 1957	a128.58
	2	119.36		16	119.81	July	29, 1960	a132.05

See footnotes at end of table.

27S/40E-4Cl. Depth 300 ft. Altitude 2,312.5 ft.

Date	Water level	Date	Water level	Date	Water level
May 26, 1952	129.61	Oct. 19, 1953	130.51	Jan. 20, 1960	138.20
Apr. 2, 1953	127.71	Mar. 16, 1954	127.55	July 29	139.38

27S/40E-4D1. Depth 168 ft. Altitude 2,325.9 ft.

July 18, 1952	139.07	Apr. 2, 1953	138.78	Apr. 6, 1955	141.72
Sept. 8	139.87	June 23	140.00	Oct. 15	143.30
Oct. 8	c141.15	Oct. 19	140.40	Sept. 18, 1957	152.44
Feb. 17, 1953	c139.71	Mar. 16, 1954	139.35	Sept. 17, 1958	147.89
Apr. 2	c142.84	Sept. 28	142.03		

27S/40E-4L1. Depth 252 ft. Altitude 2,314.1 ft.

Dec. 12, 1952	133.99	Dec. 15, 1954	134.64	Apr. 7, 1955	d137.62
Apr. 2, 1953	134.26	Feb. 20	134.12	Oct. 15	d139.6
Oct. 19	135.99	Mar. 16	134.39		
Nov. 23	135.70	Apr. 16	135.69		
		Sept. 29	137.6		

27S/40E-8A1. Depth 440 ft. Altitude 2,344.7 ft.

Dec. 13, 1952	149.86	Sept. 28, 1954	151.29	Sept. 19, 1957	154.28
Apr. 3, 1953	150.04	Apr. 6, 1955	151.66	Sept. 17, 1958	155.18
Oct. 19	150.52	Oct. 14	152.37	July 28, 1960	c157.70
Mar. 16, 1954	149.47	Sept. 12, 1956	153.44		

27S/40E-9L1. Depth 254 ft. Altitude 2,345 ft.

Mar. 16, 1954	153.05	Oct. 14, 1955	155.20	Sept. 17, 1958	159.31
June 13, 1955	154.71	Sept. 18, 1957	158.03	July 28, 1960	153.10

27S/40E-9Pl. Depth 230 ft. Altitude 2,368.0 ft.

Dec. 12, 1952	176.70	Mar. 16, 1954	177.55	Oct. 15, 1955	179.68
June 1, 1953	177.10	Sept. 28	178.12	Sept. 17, 1958	181.55
Oct. 19	177.52	Apr. 6, 1955	178.78	July 28, 1960	183.26

27S/40E-10A1. Depth 150 ft. Altitude 2,299.4 ft.

	Water level	Date		Water level	Date	Water level
May 22, 1952	104.35	Mar. 16, 1954	105.61	Sept. 12, 1956	110.23	
Apr. 2, 1953	105.42	Sept. 28	107.10	Sept. 19, 1957	109.36	
4	105.36	Apr. 6, 1955	106.91	Sept. 17, 1958	109.21	
Oct. 19	106.79	Oct. 14	109.69	Jan. 22, 1960	113.1 <sup>4</sup>	

27S/40E-10B1. Depth 170.8 ft. Altitude 2,292.5 ft.

1920	87	Dec. 17, 1953	104.83	Jan. 25, 1955	a104.77
May 22, 1952	102.69	Jan. 15, 1954	104.59	Mar. 3	a104.98
Sept. 8	104.25	Feb. 23	103.63	Apr. 6	a105.03
Feb. 17, 1953	a103.14	Mar. 16	103.89	Oct. 14	107.05
Apr. 2	a103.89	Apr. 15	104.22	July 2, 1957	106.96
4	103.77	May 13	104.49	Sept. 19	108.06
June 24	103.89	June 22	104.55	Mar. 6, 1958	105.49
Aug. 21	105.07	July 21	a104.23	Sept. 17	107.90
27	105.18	Aug. 31	a105.3 <sup>4</sup>	Jan. 22, 1960	106.6 <sup>4</sup>
Sept. 22	105.32	Sept. 27	a105.78	July 26	108.66
Oct. 19	105.42	Oct. 26	105.92		
23	105.42	Dec. 23	105.65		
Nov. 23	105.44				

27S/40E-10C1. Depth 250 ft. Altitude 2,296.4 ft.

Dec. 10, 1952	107.86	Oct. 23, 1953	111.56	Mar. 17, 1954	108.9 <sup>4</sup>
Apr. 4, 1953	109.27	23	b119.60	Sept. 19, 1957	111.70
June 24	109.22	Nov. 23	112.15	Jan. 22, 1960	110.16
July 15	g109.0	Dec. 17	c118.47		
15	c g115.2	Jan. 15, 1954	109.32		

27S/40E-11C1. Depth 126 ft. Altitude 2,301.5 ft.

May 21, 1952	105.9	Oct. 19, 1953	108.13	Sept. 28, 1954	111.1
Apr. 3, 1953	106.98	Mar. 16, 1954	106.9	July 26, 1960	113.71

See footnotes at end of table.

275/40E-11C2. Depth 140 ft. Altitude 2,307.2 ft.

	Water level	Date	Water level	Date	Water level
May 21, 1952	111.64	Mar. 16, 1954	112.96	July 26, 1960	117.08
Apr. 3, 1953	112.67	Sept. 28	114.11		
Oct. 19	113.71	Sept. 19, 1957	116.43		

- a. Nearby well being pumped.
- b. Well destroyed by seismic shot.
- c. Well being pumped.
- d. Pumped recently.
- e. Well bailed.
- f. Well recovering from bailing.
- g. Reported measurement.
- h. Water level high because faucet turned on at well 1A2.

Table 3.--Chemical analyses of water

Part A. Water from wells

Values preceded by the letter a have been calculated by the Ground Water Branch, U.S. Geological Survey.

Analyzing laboratory: DWR State of California, Department of Water Resources; H Hornkohl Laboratories, Inc., Bakersfield, Calif.; O owner; P Pomeroy and Associates, Pasadena, Calif.; SP Southern Pacific Co.; USDA U.S. Department of Agriculture, Salinity Laboratory, Riverside, Calif., Wilcox, Hatcher, and Blair (1951); USGS U.S. Geological Survey, Quality of Water Branch, Sacramento, Calif.

Depth: Where depths are different from table 1, it indicates that the well has been measured since the well was sampled.

Well number	:	23S/38E-5N1	:	23S/38E-17D1
Date of collection	:	7-13-55	:	3-30-60

Constituents in parts per million

Silica ( $\text{SiO}_2$ )		48		47
Iron (Fe)				
Calcium (Ca)	55	49	94	67
Magnesium (Mg)	33	31	55	68
Sodium (Na)	168	225	220	221
Potassium (K)	13	12	20	20
Bicarbonate ( $\text{HCO}_3$ )	437	513	752	754
Carbonate ( $\text{CO}_3$ )	0	0	0	0
Sulfate ( $\text{SO}_4$ )	83	93	101	102
Chloride (Cl)	140	170	165	173
Fluoride (F)	.6	.7	.6	.45
Nitrate ( $\text{NO}_3$ )	4.5	9.3	2.0	1
Boron (B)	2.7	4	4.9	4.7
Dissolved solids				
Calculated	a715	a894	a1,030	a1,080
Residue on evaporation at 180°C	750	894	1,100	1,307
Hardness as $\text{CaCO}_3$	172	250	a461	445
Percent sodium	56	65	a50	50
Specific conductance (micromhos at 25°C)	1,120	1,420	1,760	1,740
pH	7.9	8.0	7.4	7.2
Temperature (°F)				72
Depth of well (feet)	38	38	6.2	6.2
Analyzing laboratory	DWR	DWR	DWR	DWR
Laboratory number	5897	R3179	5896	T4056

Well number	: 24S/38E-28G1	: 24S/40E-20J1	: 24S/40E-32H1
Date of collection	: 8-5-53	: 5-15-53	: 9-22-53
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)	57	67	
Magnesium (Mg)	63	55	
Sodium (Na)	79	272	
Potassium (K)	9.3	20	
Bicarbonate ( $\text{HCO}_3^-$ )	486	162	
Carbonate ( $\text{CO}_3^{2-}$ )	0	0	
Sulfate ( $\text{SO}_4^{2-}$ )	a132	a153	
Chloride (Cl)	35	508	315
Fluoride (F)			
Nitrate ( $\text{NO}_3^-$ )	.3	1.8	
Boron (B)	.18		4.3
Dissolved solids			
Calculated	a615	a1,160	
Residue on evaporation at $180^\circ\text{C}$			
Hardness as $\text{CaCO}_3$	a402	a394	54
Percent sodium	29	59	
Specific conductance (micromhos at $25^\circ\text{C}$ )	1,050	2,100	1,780
pH	7.2	7.6	
Temperature ( $^\circ\text{F}$ )	78	70	
Depth of well (feet)	452	28.3	111.5
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	8176	7367	9243

Well number	24S/40E-33E1	24S/40E-33N1	24S/40E-34E1
Date of collection	9-22-53	7-6-53	7-8-53
Constituents in parts per million			
Silica (SiO <sub>2</sub> )			
Iron (Fe)			
Calcium (Ca)		4.7	275
Magnesium (Mg)		2	57
Sodium (Na)		2,000	286
Potassium (K)		42	26
Bicarbonate (HCO <sub>3</sub> )		822	172
Carbonate (CO <sub>3</sub> )		264	0
Sulfate (SO <sub>4</sub> )		a190	a158
Chloride (Cl)	390	2,200	900
Fluoride (F)			
Nitrate (NO <sub>3</sub> )		9.8	3.1
Boron (B)	7.5	8.4	2.7
Dissolved solids			
Calculated		a5,120	a1,790
Residue on evaporation at 180°C			
Hardness as CaCO <sub>3</sub>	108	20	a921
Percent sodium		98	39
Specific conductance (micromhos at 25°C)	2,200	8,780	3,330
pH		9.2	8.0
Temperature (°F)		68	74
Depth of well (feet)	160.8	15.9	21.0
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	9242	8195	8197

Well number	24S/40E-35J1	24S/40E-36M1	25S/38E-11K2
Date of collection	9-22-53	7-6-53	6-5-53
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)	195	37	26
Magnesium (Mg)	81	12	20
Sodium (Na)	350	71	60
Potassium (K)	22	5	4.9
Bicarbonate ( $\text{HCO}_3^-$ )	116	252	248
Carbonate ( $\text{CO}_3^{2-}$ )	0	0	0
Sulfate ( $\text{SO}_4^{2-}$ )	2130	60	47
Chloride (Cl)	65,000	975	26
Fluoride (F)			.8
Nitrate ( $\text{NO}_3^-$ )		3.9	9.3
Boron (B)	247	7.8	.6
Dissolved solids			
Calculated		a1,820	a345
Residue on evaporation at 180°C			350
Hardness as $\text{CaCO}_3$	38,900	a810	a142
Percent sodium		47	250
Specific conductance (micromhos at 25°C)	120,000	3,350	580
pH		7.9	8.1
Temperature (°F)			7.8
Depth of well (feet)	7.0	7.5	
Analyzing laboratory	USGS	USGS	DWR
Laboratory number	9244	8193	P691
			USGS
			8177

Well number	25S/38E-23G1	25S/38E-35M1	25S/39E-2E1
Date of collection	4-24-46	8-5-53	4-23-46
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)	38	26	43
Magnesium (Mg)	8.2	32	23
Sodium (Na)	80	156	109
Potassium (K)	5.3	7	9.4
Bicarbonate ( $\text{HCO}_3$ )	210	498	341
Carbonate ( $\text{CO}_3$ )	0	0	0
Sulfate ( $\text{SO}_4$ )	84	88	93
Chloride (Cl)	34	28	51
Fluoride (F)	.6		1.0
Nitrate ( $\text{NO}_3$ )	.6	6.1	1.8
Boron (B)	.34	.8	1.8
Dissolved solids			
Calculated	a354	a589	a501
Residue on evaporation at 180°C			
Hardness as $\text{CaCO}_3$	a129	a197	a202
Percent sodium	56	62	52
Specific conductance (micromhos at 25°C)	374	979	858
pH	7.7	7.6	7.8
Temperature (°F)			
Depth of well (feet)	259.0	350	210.5
Analyzing laboratory	USDA	USGS	USDA
Laboratory number	18776	8175	18771

Well number	25S/39E-4R1	25S/39E-7K1	25S/39E-9J1
Date of collection	8-5-53	4-23-46	8-3-53
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)	51	19	48
Magnesium (Mg)	35	36	32
Sodium (Na)	148	267	121
Potassium (K)	13	17	9.8
Bicarbonate ( $\text{HCO}_3$ )	428	470	410
Carbonate ( $\text{CO}_3$ )	0	trace	0
Sulfate ( $\text{SO}_4$ )	139	141	105
Chloride (Cl)	80	126	58
Fluoride (F)		.57	
Nitrate ( $\text{NO}_3$ )	1.8	Trace	.2
Boron (B)	2.6	4	1.8
Dissolved solids			
Calculated	2681	2842	2578
Residue on evaporation at $180^\circ\text{C}$			
Hardness as $\text{CaCO}_3$	271	2196	252
Percent sodium			
Specific conductance (micromhos at $25^\circ\text{C}$ )	53	69	50
pH	1,130	1,350	956
Temperature ( $^\circ\text{F}$ )	7.7	8.1	7.9
74			73
Depth of well (feet)	200	122	200
Analyzing laboratory	USGS	USDA	USGS
Laboratory number	8169	18722	8168

Well number	25S/39E-12R1	25S/39E-12R2	25S/39E-24D1
Date of collection	8-3-53	4-20-55	4-25-46
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)	39	43	34
Magnesium (Mg)	29	29	19
Sodium (Na)	165	164	81
Potassium (K)	16	3.6	8.7
Bicarbonate ( $\text{HCO}_3$ )	362	370	277
Carbonate ( $\text{CO}_3$ )	0		0
Sulfate ( $\text{SO}_4$ )	134	134	75
Chloride (Cl)	112	122	29
Fluoride (F)		.5	.57
Nitrate ( $\text{NO}_3$ )	.3	1.3	2.5
Boron (B)	2.9	4.8	.42
Dissolved solids			
Calculated	a676	a684	386
Residue on evaporation at $180^{\circ}\text{C}$	a217	a227	a163
Hardness as $\text{CaCO}_3$			
Percent sodium	60	63	50
Specific conductance (micromhos at $25^{\circ}\text{C}$ )	1,170		668
pH	7.5	7.3	7.7
Temperature ( $^{\circ}\text{F}$ )	70		
Depth of well (feet)	180.5	146.5	26.7
Analyzing laboratory	USGS	P	USDA
Laboratory number	8167		18781

Well number	:	25S/39E-26H1	:	25S/39E-28P1
Date of collection	:	2-56	:	3-56
Constituents in parts per million				
Silica ( $\text{SiO}_2$ )				
Iron (Fe)				
Calcium (Ca)		19		68
Magnesium (Mg)		8.4		17
Sodium (Na)		300		76
Potassium (K)		6.8		4.2
Bicarbonate ( $\text{HCO}_3^-$ )		384	608	160
Carbonate ( $\text{CO}_3^{2-}$ )		25	145	0
Sulfate ( $\text{SO}_4^{2-}$ )		87		155
Chloride (Cl)		201	359	84
Fluoride (F)		.9		.6
Nitrate ( $\text{NO}_3^-$ )		.1		Trace
Boron (B)		3.4		.55
Dissolved solids				
Calculated		a841		a484
Residue on evaporation at $180^\circ\text{C}$				
Hardness as $\text{CaCO}_3$		82	68	a240
Percent sodium		88		41
Specific conductance (micromhos at $25^\circ\text{C}$ )		1,450	2,580	554
pH		8.3	9.1	7.7
Temperature ( $^\circ\text{F}$ )				
Depth of well (feet)		302	302	160.7
Analyzing laboratory		USGS	USGS	USDA
Laboratory number		18299	18683	18789

Well number	:	25S/39E-31D1	:	25S/39E-31E1	:	25S/39E-35N1
Date of collection	:	10-21-52	:	10-22-52	:	7-31-53
Constituents in parts per million						
Silica ( $\text{SiO}_2$ )						
Iron (Fe)						
Calcium (Ca)						35
Magnesium (Mg)						12
Sodium (Na)						96
Potassium (K)						3.3
Bicarbonate ( $\text{HCO}_3$ )						196
Carbonate ( $\text{CO}_3$ ) <sub>3</sub>						0
Sulfate ( $\text{SO}_4$ ) <sub>3</sub>						272
Chloride (Cl)		59		50		81
Fluoride (F)						
Nitrate ( $\text{NO}_3$ ) <sub>3</sub>						.7
Boron (B)						.7
Dissolved solids						
Calculated						a398
Residue on evaporation at 180°C						
Hardness as $\text{CaCO}_3$		206		119		137
Percent sodium						60
Specific conductance (micromhos at 25°C)		1,100		837		752
pH						7.9
Temperature (°F)		74		74		68
Depth of well (feet)		252		164		152.0
Analyzing laboratory		USGS		USGS		USGS
Laboratory number		5852		5862		8166

Well number	25S/40E-3N1	25S/40E-8A1	25S/40E-11K1
Date of collection	9-22-53	7-9-53	5-14-53
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)	20	4.1	4.2
Magnesium (Mg)	33	2.4	4.7
Sodium (Na)	322	554	508
Potassium (K)	36	25	24
Bicarbonate ( $\text{HCO}_3$ )	384	716	598
Carbonate ( $\text{CO}_3$ )	0	29	92
Sulfate ( $\text{SO}_4$ )	a206	a249	a142
Chloride (Cl)	670	285	256
Fluoride (F)			
Nitrate ( $\text{NO}_3$ )		1.1	1.1
Boron (B)	17	3.6	7.2
Dissolved solids			
Calculated		1,100	a1,470
Residue on evaporation at 180°C			a1,340
Hardness as $\text{CaCO}_3$	40	a185	20
			30
Percent sodium			
Specific conductance (micromhos at 25°C)	8,080	1,790	2,230
pH		7.9	8.5
Temperature (°F)		71	67
Depth of well (feet)	8.0	17.4	62.3
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	9241	8158	7346
			8194

Well number	25S/40E-12M1	25S/40E-19L1	25S/40E-20F1
Date of collection	5-14-53	7-9-53	10-21-52

Constituents in parts per million

Silica ( $\text{SiO}_2$ )						
Iron (Fe)						
Calcium (Ca)	12	1,420				
Magnesium (Mg)	3.4	120				
Sodium (Na)	1,020	3,080				
Potassium (K)	39	55				
Bicarbonate ( $\text{HCO}_3$ )	814	24				
Carbonate ( $\text{CO}_3$ )	0	0				
Sulfate ( $\text{SO}_4$ )	388	271				
Chloride (Cl)	878	7,440	52	50	50	
Fluoride (F)						
Nitrate ( $\text{NO}_3$ )	3	13				
Boron (B)		26				
Dissolved solids						
Calculated	2,740	12,400				
Residue on evaporation at $180^\circ\text{C}$						
Hardness as $\text{CaCO}_3$	44	4,040	166	191	194	
Percent sodium	96	62				
Specific conductance (micromhos at $25^\circ\text{C}$ )	4,100	19,600	748	783	797	
pH	8.0	6.6				
Temperature ( $^{\circ}\text{F}$ )	65	72	66	69	69	
Depth of well (feet)	59.4	23.5	182.6			
Analyzing laboratory	USGS	USGS	USGS	USGS	USGS	
Laboratory number	7365	8207	5849	5850	5851	

Well number	: 25S/40E-24H1	: 25S/40E-24N1	: 25S/40E-27E1
Date of collection	: 5-15-53	: 7-8-53	: 7-9-53
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)	26	637	17
Magnesium (Mg)	71	471	9.4
Sodium (Na)	26,100	515	300
Potassium (K)	322	31	19
Bicarbonate ( $\text{HCO}_3$ )	572	18	368
Carbonate ( $\text{CO}_3$ )	0	0	28
Sulfate ( $\text{SO}_4$ )	a129	a1,100	a153
Chloride (Cl)	39,500	2,500	178
Fluoride (F)			
Nitrate ( $\text{NO}_3$ )		4.4	0
Boron (B)		5.3	1.2
Dissolved solids			
Calculated	a66,400	5,270	a887
Residue on evaporation at 180°C			
Hardness as $\text{CaCO}_3$	357	3,530	a82
Percent sodium	99	24	86
Specific conductance (micromhos at 25°C)	91,200	8,080	1,410
pH	7.3	6.4	8.7
Temperature (°F)		69	69
Depth of well (feet)	40.4	30.5	16.4
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	7366	8198	8209

Well number	25S/40E-33L2	25S/40E-35P1	25S/41E-19L1
Date of collection	3-4-54	7-9-53	7-9-53
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)		5.1	1,420
Magnesium (Mg)		6.1	120
Sodium (Na)		2,620	3,080
Potassium (K)		20	55
Bicarbonate ( $\text{HCO}_3$ )		1,410	24
Carbonate ( $\text{CO}_3$ )		294	0
Sulfate ( $\text{SO}_4$ )		a843	a271
Chloride (Cl)	893	2,290	7,440
Fluoride (F)			
Nitrate ( $\text{NO}_3$ )		7.8	13
Boron (B)	3.8	13	26
Dissolved solids			
Calculated		a6,790	a12,400
Residue on evaporation at $180^\circ\text{C}$			
Hardness as $\text{CaCO}_3$	205	38	4,040
Percent sodium		99	62
Specific conductance (micromhos at $25^\circ\text{C}$ )	3,730	10,300	19,600
pH		9.1	6.6
Temperature ( $^{\circ}\text{F}$ )	63	71	72
Depth of well (feet)	21.2	15.4	23.5
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	10796	8208	8207

Well number	25S/41E-28B1	25S/11E-31C1	26S/38E-1G1
Date of collection	3-10-54	7-9-53	10-22-52
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)		0	
Magnesium (Mg)		0	
Sodium (Na)		89,600	
Potassium (K)		423	
Bicarbonate ( $\text{HCO}_3^-$ )		507	
Carbonate ( $\text{CO}_3^{2-}$ )		13,100	
Sulfate ( $\text{SO}_4^{2-}$ )		a17,300	
Chloride (Cl)	1,390	110,000	106
Fluoride (F)			
Nitrate ( $\text{NO}_3^-$ )			
Boron (B)	17	560	
Dissolved solids			
Calculated		a232,000	
Residue on evaporation at 180°C			
Hardness as $\text{CaCO}_3$	200	0	210
Percent sodium		100	
Specific conductance (micromhos at 25°C)	5,050	174,000	906
pH		9.3	
Temperature (°F)	71	66	73
Depth of well (feet)	161.8	14.0	156
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	10797	8206	5861

Well number	26S/38E-15Q1	26S/38E-17E1	26S/39E-5F1
Date of collection	8-5-53	3-14-53	1-12-55

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	75	84	46
Magnesium (Mg)	22	32	23
Sodium (Na)	69	66	140
Potassium (K)	2.9	3.8	4.1
Bicarbonate ( $\text{HCO}_3$ )	188	264	196
Carbonate ( $\text{CO}_3$ )	0	0	0
Sulfate ( $\text{SO}_4$ )	a233	223	a244
Chloride (Cl)	24	17	16
Fluoride (F)			1.0
Nitrate ( $\text{NO}_3$ )	.2		1.0
Boron (B)	.12		.18
			.41

Dissolved solids

Calculated	a519		a557	a629
Residue on evaporation at $180^{\circ}\text{C}$			585	
Hardness as $\text{CaCO}_3$	278	260	a341	210

Percent sodium	35		a29	59
Specific conductance (micromhos at $25^{\circ}\text{C}$ )	811	764	794	898
pH	8.0		7.9	7.8
Temperature ( $^{\circ}\text{F}$ )	69	68		70

Depth of well (feet)	Spring	110	200
Analyzing laboratory	USGS	USGS	DWR
Laboratory number	8174	7229	5305

Well number	:	26S/39E-7NL	26S/39E-11EL
Date of collection	:	8-26-49 : 3-27-51 : 10-22-52	7-29-53

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	31	40	35
Magnesium (Mg)	11	7.3	7.5
Sodium (Na)	b62	b69	45
Potassium (K)			2.4
Bicarbonate ( $\text{HCO}_3$ )	104	122	138
Carbonate ( $\text{CO}_3$ ) <sup>3</sup>			0
Sulfate ( $\text{SO}_4$ ) <sup>3</sup>	95	95	249
Chloride (Cl)	52	53	38
Fluoride (F)			
Nitrate ( $\text{NO}_3$ )		7.3	2.2
Boron (B)			.53

Dissolved solids

Calculated a302 332 a248

Residue on evaporation at 180°C

Hardness as  $\text{CaCO}_3$  a123 a130 139 118

Percent sodium	52	53	45
Specific conductance (micromhos at 25°C)			570 441
pH	8.0	8.6	7.9
Temperature (°F)			82 72

Depth of well (feet)	368	368	368	250
Analyzing laboratory	SP	SP	USGS	USGS
Laboratory number	W9433	W9661	5860	8165

See footnotes at end of table.

Well number	:	26S/39E-14E1	:	26S/39E-19K1
Date of collection	:	1-22-46	:	10-10-60
Constituents in parts per million				
Silica (SiO <sub>2</sub> )				34
Iron (Fe)				.01
Calcium (Ca)		31		95
Magnesium (Mg)		7.3		20
Sodium (Na)		33		85
Potassium (K)		5.7		3.4
Bicarbonate (HCO <sub>3</sub> )		135		62
Carbonate (CO <sub>3</sub> )		0		0
Sulfate (SO <sub>4</sub> )		36		95
Chloride (Cl)		28		265
Fluoride (F)		.8		.4
Nitrate (NO <sub>3</sub> )		trace		2.6
Boron (B)		.25		.1
Dissolved solids				
Calculated		a209		a632
Residue on evaporation at 180°C				697
Hardness as CaCO <sub>3</sub>		a107		321
Percent sodium		38		36
Specific conductance (micromhos at 25°C)		380		1,180
pH		7.6		7.8
Temperature (°F)				77
Depth of well (feet)		242.3		803
Analyzing laboratory		USDA		USGS
Laboratory number		18799		35111

Well number	:	26S/39E-19P1
Date of collection	:	10-22-52 : 6-1-53 : 9-28-54
Constituents in parts per million		
Silica ( $\text{SiO}_2$ )		
Iron (Fe)		
Calcium (Ca)		43
Magnesium (Mg)		6.8
Sodium (Na)		64
Potassium (K)		2.7
Bicarbonate ( $\text{HCO}_3$ )		107
Carbonate ( $\text{CO}_3$ )		0
Sulfate ( $\text{SO}_4$ )		70
Chloride (Cl)	78	76
Fluoride (F)		.6
Nitrate ( $\text{NO}_3$ )		3.6
Boron (B)		4.4
		.24
Dissolved solids		
Calculated		a320
Residue on evaporation at $180^\circ\text{C}$		
Hardness as $\text{CaCO}_3$	136	a135
		123
Percent sodium		50
Specific conductance (micromhos at $25^\circ\text{C}$ )	582	577
pH		7.6
Temperature ( $^\circ\text{F}$ )	83	83
Depth of well (feet)	446	446
Analyzing laboratory	USGS	USGS
Laboratory number	5859	7652
		13202

Well number	:	265/39E-19Q1
Date of collection	:	4-5-55 : 10-14-55 : 10-17-56 : 3-21-57

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	50	66
Magnesium (Mg)	7.1	8.6
Sodium (Na)	71	78
Potassium (K)	3.1	3.6
Bicarbonate ( $\text{HCO}_3^-$ )	96	92
Carbonate ( $\text{CO}_3^{2-}$ )	0	0
Sulfate ( $\text{SO}_4^{2-}$ )	a81	a72
Chloride (Cl)	105	103
Fluoride (F)	.6	.5
Nitrate ( $\text{NO}_3^-$ )		
Boron (B)	.1	

Dissolved solids

Calculated	a365	a431
Residue on evaporation at 180°C		
Hardness as $\text{CaCO}_3$	154	160

Percent sodium	49	45
Specific conductance (micromhos at 25°C)	631	678
pH	8.0	7.7
Temperature (°F)	86	87

Depth of well (feet)	367.5	367.5	367.5	367.5
Analyzing laboratory	USGS	USGS	USGS	USGS
Laboratory number	14813	17226	20709	22069

Well number	:	263/39E-19Q1			
Date of collection	:	9-19-57	4-8-58	9-18-58	11-20-59
Constituents in parts per million					
Silica ( $\text{SiO}_2$ )					
Iron (Fe)					
Calcium (Ca)	53	50	65	50	
Magnesium (Mg)	7.3	7.5	9.2	7.5	
Sodium (Na)	68	63	84	64	
Potassium (K)	3.5	2.7	4.2	2.5	
Bicarbonate ( $\text{HCO}_3$ )	94	94	84	96	
Carbonate ( $\text{CO}_3$ )	0	0	0	0	
Sulfate ( $\text{SO}_4$ )	a71	a70	a99	a75	
Chloride (Cl)	116	106	104	152	100
Fluoride (F)				.6	
Nitrate ( $\text{NO}_3$ )					
Boron (B)					
Dissolved solids					
Calculated	a365	a343	a203	a346	
Residue on evaporation at $180^{\circ}\text{C}$					
Hardness as $\text{CaCO}_3$	162	150	156	200	156
Percent sodium	47	46	47	47	
Specific conductance (micromhos at $25^{\circ}\text{C}$ )	665	643	655	787	631
pH	7.1		7.2	7.2	7.1
Temperature ( $^{\circ}\text{F}$ )	86	85		87	85
Depth of well (feet)	367.5	367.5	367.5	367.5	367.5
Analyzing laboratory	USGS	USGS	USGS	USGS	USGS
Laboratory number	23724	25668	27883	32243	34811

Well number	: 26S/39E-21N1	: 26S/39E-23J1	: 26S/39E-24K1
Date of collection	: 10-22-52	: 10-17-60	: 7-6-57
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )		34	
Iron (Fe)		0	
Calcium (Ca)		25	
Magnesium (Mg)		7.8	
Sodium (Na)		33	
Potassium (K)		2.9	
Bicarbonate ( $\text{HCO}_3$ )		125	
Carbonate ( $\text{CO}_3$ ) <sup>3</sup>		0	
Sulfate ( $\text{SO}_4$ ) <sup>3</sup>		36	
Chloride (Cl)	30	24	26
Fluoride (F)		.6	
Nitrate ( $\text{NO}_3$ )		2	
Boron (B) <sup>3</sup>		.2	
Dissolved solids			
Calculated		a228	
Residue on evaporation at 180°C		247	
Hardness as $\text{CaCO}_3$	113	94	80
Percent sodium		42	
Specific conductance (micromhos at 25°C)	435	350	314
pH		7.9	
Temperature (°F)			80
Depth of well (feet)	285	800	323.1
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	5857	35113	23725

Well number	26S/39E-24M1		26S/39E-24P1		
Date of collection	: 10-27-60	: 3-6-58	: 9-18-58	: 11-20-59	: 8-11-60
Constituents in parts per million					
Silica ( $\text{SiO}_2$ )	27	37			
Iron (Fe)	.02	.01			
Calcium (Ca)	18	13	4	2.8	15
Magnesium (Mg)	.5	3	0	1	3.5
Sodium (Na)	46	59	78	82	53
Potassium (K)	1.5	2.6	1	.8	2.2
Bicarbonate ( $\text{HCO}_3^-$ )	114	144	176	126	138
Carbonate ( $\text{CO}_3^{2-}$ )	0	0	0	26	0
Sulfate ( $\text{SO}_4^{2-}$ )	29	28	a18	a21	a31
Chloride (Cl)	19	20	13	14	18
Fluoride (F)	.6	1		.8	
Nitrate ( $\text{NO}_3^-$ )	2.1	4.1			
Boron (B)	.2	.2			
Dissolved solids					
Calculated	a200	239	a201	a210	a191
Residue on evaporation at $180^\circ\text{C}$	213	237			
Hardness as $\text{CaCO}_3$	47	45	10	11	52
Percent sodium	67	73	94	94	68
Specific conductance (micromhos at $25^\circ\text{C}$ )	298	360	348	353	343
pH	8.8	8.0	8.1	9.1	8.0
Temperature ( $^{\circ}\text{F}$ )		87		93	86
Depth of well (feet)	800	825.0	825.0	825.0	825.0
Analyzing laboratory	USGS	USGS	USGS	USGS	USGS
Laboratory number	35112	25357	27884	32242	34810

Well number	:	26S/39E-24Q1	
Date of collection	:	6-6-52	: 10-22-52 : 10-14-55

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	32	34
Magnesium (Mg)	7.8	7.6
Sodium (Na)	36	36
Potassium (K)	3.8	3.1
Bicarbonate ( $\text{HCO}_3$ )	120	117
Carbonate ( $\text{CO}_3$ )	0	0
Sulfate ( $\text{SO}_4$ )	44	459
Chloride (Cl)	26	27
Fluoride (F)	.5	.6
Nitrate ( $\text{NO}_3$ )	9.3	
Boron (B)	.15	.20

Dissolved solids

Calculated	a219	a226
Residue on evaporation at $180^{\circ}\text{C}$		
Hardness as $\text{CaCO}_3$	112	114

Percent sodium	40	39
Specific conductance (micromhos at $25^{\circ}\text{C}$ )	388	391
pH	7.9	7.4
Temperature ( $^{\circ}\text{F}$ )	79	79

Depth of well (feet)	361	361	361
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	4349	5854	17232

Well number	:	268/39E-24Q1		
Date of collection	:	10-17-56	9-19-57	4-8-58
Constituents in parts per million				
Silica ( $\text{SiO}_2$ )				
Iron (Fe)				
Calcium (Ca)	29	34		36
Magnesium (Mg)	6.7	6.6		8.8
Sodium (Na)	33	34		39
Potassium (K)	4.1	3.9		2.4
Bicarbonate ( $\text{HCO}_3$ )	121	116		170
Carbonate ( $\text{CO}_3$ )	0	0		0
Sulfate ( $\text{SO}_4$ )	a38	a53		a31
Chloride (Cl)	26	29	30	30
Fluoride (F)	.5			
Nitrate ( $\text{NO}_3$ )				
Boron (B)				
Dissolved solids				
Calculated	a197	a218		a231
Residue on evaporation at $180^\circ\text{C}$				
Hardness as $\text{CaCO}_3$	100	112	130	126
Percent sodium	41	39		40
Specific conductance (micromhos at $25^\circ\text{C}$ )	361	385	392	416
pH	7.7	7.1		7.4
Temperature ( $^\circ\text{F}$ )	80	80	79	
Depth of well (feet)	361	361	361	361
Analyzing laboratory	USGS	USGS	USGS	USGS
Laboratory number	20710	23723	25667	27885

Well number	:	26S/39E-24R1		
Date of collection	:	9-28-54	: 4-5-55	: 10-14-55 : 10-17-56

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	4.8	10	8.7
Magnesium (Mg)	1.6	1.4	1.5
Sodium (Na)	52	51	45
Potassium (K)	3.2	3.2	4.8

Bicarbonate ( $\text{HCO}_3$ )	140	141	134
Carbonate ( $\text{CO}_3$ )	0	0	0
Sulfate ( $\text{SO}_4$ )	a5.8	a10	a.1
Chloride (Cl)	13	9.6	12
Fluoride (F)		.6	.9
Nitrate ( $\text{NO}_3$ )	.6		
Boron (B)		.15	.19

Dissolved solids

Calculated	a146	a158	141
Residue on evaporation at 180°C			
Hardness as $\text{CaCO}_3$	32	19	31

Percent sodium	83	76	74
Specific conductance (micromhos at 25°C)	278	231	283
pH		7.7	8.2
Temperature (°F)	82	81	80

Depth of well (feet)	480	480	480
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	13205	14810	17231

Well number	:	265/39E-24R1		
Date of collection	:	3-21-57	:	4-8-58
Constituents in parts per million				
Silica ( $\text{SiO}_2$ )				
Iron (Fe)				
Calcium (Ca)				19
Magnesium (Mg)				6
Sodium (Na)				38
Potassium (K)				5.5
Bicarbonate ( $\text{HCO}_3^-$ )				126
Carbonate ( $\text{CO}_3^{2-}$ )				0
Sulfate ( $\text{SO}_4^{2-}$ )				
Chloride (Cl)		95	10	21
Fluoride (F)				
Nitrate ( $\text{NO}_3^-$ )				
Boron (B)				
Dissolved solids				
Calculated				a152
Residue on evaporation at 180°C				
Hardness as $\text{CaCO}_3$		15	38	72
Percent sodium				51
Specific conductance (micromhos at 25°C)		246	243	305
pH				7.7
Temperature (°F)		82	83	
Depth of well (feet)		480	480	480
Analyzing laboratory		USGS	USGS	USGS
Laboratory number		22070	25666	27886

Well number	26S/39E-25C1	26S/39E-25E1	26S/39E-28C2
Date of collection	: 10-22-52	: 10-22-52	: 5----57
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)			27
Magnesium (Mg)			12
Sodium (Na)			55
Potassium (K)			a4.7
Bicarbonate ( $\text{HCO}_3$ )			145
Carbonate ( $\text{CO}_3$ )			0
Sulfate ( $\text{SO}_4$ )			67
Chloride (Cl)	76	29	33
Fluoride (F)			
Nitrate ( $\text{NO}_3$ )			8.5
Boron (B)			.05
Dissolved solids			
Calculated			a278
Residue on evaporation at 180°C			
Hardness as $\text{CaCO}_3$	200	124	a117
Percent sodium			51
Specific conductance (micromhos at 25°C)	651	432	425
pH			7.6
Temperature (°F)	70	78	
Depth of well (feet)	210	387	364
Analyzing laboratory	USGS	USGS	H
Laboratory number	5855	5856	

Well number	:	26S/39E-30J1	:	26S/40E-1A1
Date of collection	:	10-22-52	:	6-5-53
Constituents in parts per million				
Silica ( $\text{SiO}_2$ )				
Iron (Fe)				
Calcium (Ca)		28		2.3
Magnesium (Mg)		3.8		3.8
Sodium (Na)		59		64,600
Potassium (K)		2.5		265
Bicarbonate ( $\text{HCO}_3^-$ )		128		2,300
Carbonate ( $\text{CO}_3^{2-}$ )		0		11,500
Sulfate ( $\text{SO}_4^{2-}$ )		59		28,580
Chloride (Cl)	31	33		78,600
Fluoride (F)		.5		
Nitrate ( $\text{NO}_3^-$ )		8.7		
Boron (B)		.1		211
Dissolved solids				
Calculated		a253		a165,000
Residue on evaporation at 180°C				
Hardness as $\text{CaCO}_3$	90	a86		21
Percent sodium		59		100
Specific conductance (micromhos at 25°C)	431	434		154,000
pH		8.1		9.4
Temperature (°F)				68
Depth of well (feet)	430	430		15.2
Analyzing laboratory	USGS	DWR		USGS
Laboratory number	5858	P692		8199

Well number	:	265/40E-1A2	:	265/40E-1A3	:	265/40E-1J1
Date of collection	:	3-9-54	:	3-9-54	:	3-17-54
	:		:		:	7-8-53

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)		0		271
Magnesium (Mg)		1.9		120
Sodium (Na)		5,400		18,300
Potassium (K)		64		339
Bicarbonate ( $\text{HCO}_3$ )		1,420		145
Carbonate ( $\text{CO}_3$ )		2,430		0
Sulfate ( $\text{SO}_4$ ) <sup>3</sup>		a1,620		a2,310
Chloride (Cl)	3,220	3,460	19,500	27,100
Fluoride (F)				
Nitrate ( $\text{NO}_3$ )				
Boron (B) <sup>3</sup>		151	73	16

Dissolved solids

Calculated		a13,800		a48,500
Residue on evaporation at 180°C				
Hardness as $\text{CaCO}_3$	4	8		1,170

Percent sodium		99		96
Specific conductance (micromhos at 25°C)	16,900	19,100	52,700	66,600
pH		9.6		7.9
Temperature (°F)	72	76	68	70

Depth of well (feet)	197.5	197.5	18.5	18.3
Analyzing laboratory	USGS	USGS	USGS	USGS
Laboratory number	10794	10795	10801	8200

Well number	26S/40E-5Fl		26S/40E-5Pl	
Date of collection	2-1-46	8-4-53	9-27-54	5-15-58
Constituents in parts per million				
Silica ( $\text{SiO}_2$ )				
Iron (Fe)				
Calcium (Ca)	24	48	45	
Magnesium (Mg)	4.5	9	7.4	
Sodium (Na)	95	150	145	
Potassium (K)	5.7	7.3	5.4	
Bicarbonate ( $\text{HCO}_3$ )	158	228	230	
Carbonate ( $\text{CO}_3$ )	0	0	0	
Sulfate ( $\text{SO}_4$ ) <sup>3</sup>	32	a61	a60	
Chloride (Cl)	83	171	418	150
Fluoride (F)	1.1			.9
Nitrate ( $\text{NO}_3$ )	.6	1.1	.5	.2
Boron (B)	.95	2.8		3.2
Dissolved solids				
Calculated	a325	a562	a530	
Residue on evaporation at 180°C				
Hardness as $\text{CaCO}_3$	a78	157	468	143
Percent sodium	70	66	68	
Specific conductance (micromhos at 25°C)	376	1,030	2,130	982
pH	7.9	7.1		7.6
Temperature (°F)		70		71
Depth of well (feet)	24.6	89.3	89.3	89.3
Analyzing laboratory	USDA	USGS	USGS	USGS
Laboratory number	18009	8171	13200	25991

Well number	:	26S/40E-7E1	:	26S/40E-10F1	:	26S/40E-10N1
Date of collection	:	1-22-46	:	7-9-53	:	7-6-53
Constituents in parts per million						
Silica (SiO <sub>2</sub> )						
Iron (Fe)						
Calcium (Ca)		34		16		10
Magnesium (Mg)		11		6		6
Sodium (Na)		275		169		388
Potassium (K)		54		7.5		6
Bicarbonate (HCO <sub>3</sub> )		c674		274		398
Carbonate (CO <sub>3</sub> )		0		0		98
Sulfate (SO <sub>4</sub> )		2.4		a40		a14
Chloride (Cl)		179		124		280
Fluoride (F)		.8				
Nitrate (NO <sub>3</sub> )		2.5		.4		1.3
Boron (B)		7.3		5.9		12
Dissolved solids						
Calculated		a898		a504		a1,010
Residue on evaporation at 180°C						
Hardness as CaCO <sub>3</sub>		a130		a65		50
Percent sodium		75		83		94
Specific conductance (micromhos at 25°C)		1,770		876		1,730
pH		7.4		8.2		9.1
Temperature (°F)				70		70
Depth of well (feet)		86.0		38.9		134.2
Analyzing laboratory		USDA		USGS		USGS
Laboratory number		18807		8160		8191

See footnotes at end of table.

Well number	:	26S/40E-11A1	:	26S/40E-11J1
Date of collection	:	7-6-53	:	7-9-53

Constituents in parts per million

Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)	2.5	51	
Magnesium (Mg)	4.1	9.2	
Sodium (Na)	26,700	322	
Potassium (K)	546	12	
Bicarbonate ( $\text{HCO}_3$ )	2,660	18	
Carbonate ( $\text{CO}_3$ ) <sup>3</sup>	3,920	0	
Sulfate ( $\text{SO}_4$ ) <sup>3</sup>	4,740	4147	
Chloride (Cl)	32,000	505	
Fluoride (F)			
Nitrate ( $\text{NO}_3$ )		1.4	
Boron (B)	258	2.6	
Dissolved solids			
Calculated	a69,500	a1,060	
Residue on evaporation at 180°C			
Hardness as $\text{CaCO}_3$	23	165	
Percent sodium	99	80	
Specific conductance (micromhos at 25°C)	85,900	1,840	
pH	9.3	5.6	
Temperature (°F)	83	71	
Depth of well (feet)	5.4	18.3	
Analyzing laboratory	USGS	USGS	
Laboratory number	8196	8159	

Well number	:	26S/40E-15E1
Date of collection	:	7-6-53 : 9-27-54 : 4-4-55

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	8.5	5.7
Magnesium (Mg)	2.6	2.9
Sodium (Na)	186	176
Potassium (K)	2.5	3.2
Bicarbonate ( $\text{HCO}_3$ )	322	362
Carbonate ( $\text{CO}_3$ ) <sup>3</sup>	22	0
Sulfate ( $\text{SO}_4$ ) <sup>3</sup>	a24	a10
Chloride (Cl)	79	73
Fluoride (F)		1.0
Nitrate ( $\text{NO}_3$ )	1.8	.3
Boron (B) <sup>3</sup>	10	14

Dissolved solids

Calculated a495 a464

Residue on evaporation at 180°C

Hardness as  $\text{CaCO}_3$  32 24 26

Percent sodium	92	93
Specific conductance (micromhos at 25°C)	811	822
pH	8.6	8.2
Temperature (°F)	70	71

Depth of well (feet)	110.1	110.1	110.1
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	8190	13199	14818

Well number	:	26S/40E-15E1			
Date of collection	:	10-14-55	10-16-56	9-17-57	9-16-58
Constituents in parts per million					
Silica ( $\text{SiO}_2$ )					
Iron (Fe)					
Calcium (Ca)					
Magnesium (Mg)					
Sodium (Na)					
Potassium (K)					
Bicarbonate ( $\text{HCO}_3$ )					
Carbonate ( $\text{CO}_3$ )					
Sulfate ( $\text{SO}_4$ )					
Chloride (Cl)					
Fluoride (F)					
Nitrate ( $\text{NO}_3$ )					
Boron (B)					
Dissolved solids					
Calculated					
Residue on evaporation at 180°C					
Hardness as $\text{CaCO}_3$					
	34	27	36	33	
Percent sodium					
Specific conductance (micromhos at 25°C)					
pH	799	751	786	752	
Temperature (°F)					
	72	71	72	72	
Depth of well (feet)					
Analyzing laboratory					
Laboratory number					
	110.1 USGS 17228	110.1 USGS 20712	110.1 USGS 23727	110.1 USGS 27879	

Well number	:	26S/40E-15E2			
Date of collection	:	4-4-55	10-14-55	10-16-56	9-17-57

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	7
Magnesium (Mg)	3.5
Sodium (Na)	1,540
Potassium (K)	16

Bicarbonate ( $\text{HCO}_3$ )	1,640
Carbonate ( $\text{CO}_3$ )	839
Sulfate ( $\text{SO}_4$ )	472
Chloride (Cl)	410
Fluoride (F)	2.4
Nitrate ( $\text{NO}_3$ )	
Boron (B)	199

Dissolved solids

Calculated 3,900

Residue on evaporation at 180°C

Hardness as  $\text{CaCO}_3$

Percent sodium	98
Specific conductance (micromhos at 25°C)	5,340
pH	8.8
Temperature (°F)	72

Depth of well (feet)	197.8
Analyzing laboratory	USGS
Laboratory number	14819

Well number	263/40E-17N1							
Date of collection	10-13-55 : 10-15-56 : 9-16-57 : 9-15-58							
Constituents in parts per million								
Silica ( $\text{SiO}_2$ )								
Iron (Fe)								
Calcium (Ca)	13							
Magnesium ( $\text{Mg}$ )	1.3							
Sodium (Na)	66							
Potassium (K)	12							
Bicarbonate ( $\text{HCO}_3$ )	166							
Carbonate ( $\text{CO}_3$ )	5							
Sulfate ( $\text{SO}_4$ )	a23							
Chloride (Cl)	20	17	20	16				
Fluoride (F)								
Nitrate ( $\text{NO}_3$ )								
Boron (B)	.71							
Dissolved solids								
Calculated	a223							
Residue on evaporation at $180^{\circ}\text{C}$								
Hardness as $\text{CaCO}_3$	38	26	36	37				
Percent sodium	73							
Specific conductance (micromhos at $25^{\circ}\text{C}$ )	364	339		362				
pH	8.5			7.3				
Temperature ( $^{\circ}\text{F}$ )	75	75	76	77				
Depth of well (feet)	178.1	178.1	178.1	178.1				
Analyzing laboratory	USGS	USGS	USGS	USGS				
Laboratory number	17225	20714	23722	27877				

Well number	:	26S/40E-18N1	:	26S/40E-19P1
Date of collection	:	9-28-54	:	4-5-55
Constituents in parts per million				
Silica ( $\text{SiO}_2$ )				
Iron (Fe)				
Calcium (Ca)		13		30
Magnesium (Mg)		5.7		9
Sodium (Na)		63		32
Potassium (K)		4		4.9
Bicarbonate ( $\text{HCO}_3$ )		182		119
Carbonate ( $\text{CO}_3$ )		0		0
Sulfate ( $\text{SO}_4$ )		a12		a47
Chloride (Cl)	29	24	25	28
Fluoride (F)		.8		.5
Nitrate ( $\text{NO}_3$ )		.1		
Boron (B)		.37		
Dissolved solids				
Calculated		a213		a210
Residue on evaporation at $180^\circ\text{C}$				
Hardness as $\text{CaCO}_3$	61	56	109	112
Percent sodium		69		37
Specific conductance (micromhos at $25^\circ\text{C}$ )	359	363	371	358
pH		8.0		7.4
Temperature ( $^\circ\text{F}$ )	75	79	78	87
Depth of well (feet)	157.9	d554.7	261.0	261.0
Analyzing laboratory	USGS	USGS	USGS	USGS
Laboratory number	13201	14815	5853	32241

See footnotes at end of table.

Well number	26S/40E-20N1		26S/40E-22N1	
Date of collection	6-1-53	7-9-53	9-27-54	4-4-55
Constituents in parts per million				
Silica ( $\text{SiO}_2$ )				
Iron (Fe)				
Calcium (Ca)	31	3.8	3.5	
Magnesium (Mg)	8.5	2.5	2.3	
Sodium (Na)	34	209	170	
Potassium (K)	4.9	7.4	5.2	
Bicarbonate ( $\text{HCO}_3$ )	120	530	368	
Carbonate ( $\text{CO}_3$ )	0	0	20	
Sulfate ( $\text{SO}_4$ )	a46	a6	a18	
Chloride (Cl)	28	30	26	24
Fluoride (F)				2.2
Nitrate ( $\text{NO}_3$ )	8.1	1	1.4	
Boron (B)		4.9		3.1
Dissolved solids				
Calculated	a220	a520	a429	
Residue on evaporation at 180°C				
Hardness as $\text{CaCO}_3$	112	20	11	18
Percent sodium	38	94	94	
Specific conductance (micromhos at 25°C)	379	913	864	720
pH	7.7	8.2		8.6
Temperature (°F)	78		76	75
Depth of well (feet)	190.1	203.2	203.2	203.2
Analyzing laboratory	USGS	USGS	USGS	USGS
Laboratory number	7361	8163	13198	14816

Well number	:	26S/40E-22N1					
Date of collection	:	10-13-55 : 10-12-56 : 9-17-57 : 9-16-58					
Constituents in parts per million							
Silica ( $\text{SiO}_2$ )							
Iron (Fe)							
Calcium (Ca)							
Magnesium (Mg)							
Sodium (Na)							
Potassium (K)							
Bicarbonate ( $\text{HCO}_3$ )							
Carbonate ( $\text{CO}_3$ )							
Sulfate ( $\text{SO}_4$ )							
Chloride (Cl)							
Fluoride (F)							
Nitrate ( $\text{NO}_3$ )							
Boron (B)							
Dissolved solids							
Calculated							
Residue on evaporation at 180°C							
Hardness as $\text{CaCO}_3$		13	16	22			
				33			
Percent sodium							
Specific conductance (micromhos at 25°C)							
pH		669	594	524			
Temperature (°F)		78	76	75			
Depth of well (feet)		203.2	203.2	203.2			
Analyzing laboratory		USGS	USGS	USGS			
Laboratory number		17223	20715	23728			
				27880			

Well number	: 26S/40E-22P1	: 26S/40E-23C1	: 26S/40E-24C1
Date of collection	: 2-23-54	: 7-9-53	: 7-9-53
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)	3.4	688	88
Magnesium (Mg)	.6	74	7.3
Sodium (Na)	407	608	145
Potassium (K)	7.1	20	9
Bicarbonate ( $\text{HCO}_3$ )	766	20	120
Carbonate ( $\text{CO}_3$ )	24	0	0
Sulfate ( $\text{SO}_4$ )	23	al,050	a85
Chloride (Cl)	152	1,600	275
Fluoride (F)	4		
Nitrate ( $\text{NO}_3$ )	1.1	6.4	2.3
Boron (B)	3	7.8	.43
Dissolved solids			
Calculated	al,000	a4,060	a675
Residue on evaporation at 180°C			
Hardness as $\text{CaCO}_3$	11	2,020	250
Percent sodium	98	39	55
Specific conductance (micromhos at 25°C)	1,690	5,980	1,240
pH	8.6	6.8	7.8
Temperature (°F)	90	70	72
Depth of well (feet)	830.0	40.2	45.4
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	10623	8202	8203

Well number	265/40E-24R1	265/40E-26B1
Date of collection	3-9-54	7-8-53
Constituents in parts per million		
Silica ( $\text{SiO}_2$ )		
Iron (Fe)		
Calcium (Ca)	9.6	193
Magnesium (Mg)	24	33
Sodium (Na)	228	237
Potassium (K)	18	10
Bicarbonate ( $\text{HCO}_3$ )	136	118
Carbonate ( $\text{CO}_3$ )	0	0
Sulfate ( $\text{SO}_4$ )	a83	a327
Chloride (Cl)	314	500
Fluoride (F)		480
Nitrate ( $\text{NO}_3$ )		4.6
Boron (B)	1.8	1.7
Dissolved solids		
Calculated	a745	a1,360
Residue on evaporation at 180°C		
Hardness as $\text{CaCO}_3$	a123	618
		480
Percent sodium	77	45
Specific conductance (micromhos at 25°C)	1,430	2,370
pH	7.6	7.8
Temperature (°F)	71	74
Depth of well (feet)	149	49.1
Analyzing laboratory	USGS	USGS
Laboratory number	10800	8201
		9245

Well number	26S/40E-28A3	26S/40E-28C1	26S/40E-28H1
Date of collection	6-1-53	6-1-53	6-1-53

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	8.4	28	35
Magnesium (Mg)	2.2	5.5	8.3
Sodium (Na)	98	63	69
Potassium (K)	8.8	6.8	14
Bicarbonate ( $\text{HCO}_3$ )	189	138	124
Carbonate ( $\text{CO}_3$ ) <sup>3</sup>	0	0	0
Sulfate ( $\text{SO}_4$ ) <sup>3</sup>	265	256	234
Chloride (Cl)	22	44	34
Fluoride (F)			
Nitrate ( $\text{NO}_3$ )	.7	6.1	1.2
Boron (B) <sup>3</sup>			

Dissolved solids

Calculated	a298	a277	a356
Residue on evaporation at 180°C			
Hardness as $\text{CaCO}_3$	30	92	122

Percent sodium	84	58	52
Specific conductance (micromhos at 25°C)	440	502	579
pH	8.0	7.8	7.7
Temperature (°F)			76

Depth of well (feet)	147		
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	7363	7362	7368

Well number	: 263/40E-30E2	: 26S/40E-32D1	: 26S/40E-32E1
Date of collection	: 8-5-53	: 7-10-53	: 7-9-53

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	18	19	36
Magnesium (Mg)	10	5.9	8.4
Sodium (Na)	34	37	42
Potassium (K)	4	2.7	3.3
Bicarbonate ( $\text{HCO}_3$ )	115	102	112
Carbonate ( $\text{CO}_3$ )	0	0	0
Sulfate ( $\text{SO}_4$ )	231	230	225
Chloride (Cl)	24	24	64
Fluoride (F)			
Nitrate ( $\text{NO}_3$ )	5.6	8.9	15
Boron (B)	.14	.1	.16

Dissolved solids

Calculated	a184	a178	a249
Residue on evaporation at 180°C			

Hardness as $\text{CaCO}_3$	86	72	124
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Percent sodium	45	52	42
Specific conductance (micromhos at 25°C)	341	325	476
pH	8.0	8.2	8.0
Temperature (°F)	80	81	80

Depth of well (feet)	402	279	300
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	8173	8164	8162

Well number	26S/40E-33A2	26S/40E-33P1		
Date of collection	6-1-53	1945	9-28-54	6-1-53
Constituents in parts per million				
Silica ( $\text{SiO}_2$ )				
Iron (Fe)				
Calcium (Ca)	3.8	36		38
Magnesium (Mg)	.8	10		9.3
Sodium (Na)	79	58		55
Potassium (K)	5.8	4.2		3.6
Bicarbonate ( $\text{HCO}_3$ )	153	123		135
Carbonate ( $\text{CO}_3$ )	0			0
Sulfate ( $\text{SO}_4$ )	212	46		49
Chloride ( $\text{Cl}$ )	38	68	68	57
Fluoride (F)				.5
Nitrate ( $\text{NO}_3$ )	.2	22	14	14
Boron (B)		.3		.28
Dissolved solids				
Calculated	215	306		280
Residue on evaporation at 180°C				
Hardness as $\text{CaCO}_3$	13	131	138	133
Percent sodium	89	48		46
Specific conductance (micromhos at 25°C)	368	547	591	533
pH	8.1	7.7		7.7
Temperature (°F)			77	76
Depth of well (feet)	350	400	400	400
Analyzing laboratory	USGS	0	USGS	USGS
Laboratory number	7369		13203	7653

Well number	26S/40E-33P2	26S/40E-34N1		
Date of collection	1945	6-2-53	9-28-54	4-6-55
Constituents in parts per million				
Silica ( $\text{SiO}_2$ )				
Iron (Fe)				
Calcium (Ca)	100	16	15	
Magnesium (Mg)	24	5.6	5.7	
Sodium (Na)	101	63	55	
Potassium (K)	6.4	3.8	3.6	
Bicarbonate ( $\text{HCO}_3$ )	236	136	126	
Carbonate ( $\text{CO}_3$ )	0	0	0	
Sulfate ( $\text{SO}_4$ )	150	a25	a27	
Chloride (Cl)	138	45	48	37
Fluoride (F)				.4
Nitrate ( $\text{NO}_3$ )	33		4.8	
Boron (B)	1.1			.29
Dissolved solids				
Calculated	a670	a225		a206
Residue on evaporation at $180^\circ\text{C}$				
Hardness as $\text{CaCO}_3$	a348	63	80	61
Percent sodium	38	67		65
Specific conductance (micromhos at $25^\circ\text{C}$ )	1,130	417	436	368
pH	7.7	7.8		8.0
Temperature ( $^\circ\text{F}$ )		78	78	78
Depth of well (feet)	250	232	232	232
Analyzing laboratory	0	USGS	USGS	USGS
Laboratory number		7379	13204	14817

Well number	:	26S/40E-34N1				
Date of collection	:	10-14-55	10-17-56	3-22-57	9-18-57	4-8-58
Constituents in parts per million						
Silica ( $\text{SiO}_2$ )						
Iron (Fe)						
Calcium (Ca)		15		18		
Magnesium (Mg)		4.2		4.1		
Sodium (Na)		65		63		
Potassium (K)		3.2		3.8		
Bicarbonate ( $\text{HCO}_3$ )		138		136		
Carbonate ( $\text{CO}_3$ )		0		0		
Sulfate ( $\text{SO}_4$ )		219		226		
Chloride (Cl)	44	46	55	46	54	
Fluoride (F)		.8				
Nitrate ( $\text{NO}_3$ )						
Boron (B)						
Dissolved solids						
Calculated		a221		a228		
Residue on evaporation at 180°C						
Hardness as $\text{CaCO}_3$	61	55	92	62	140	
Percent sodium		71		67		
Specific conductance (micromhos at 25°C)	419	416	458	407	452	
pH		7.8		6.9		
Temperature (°F)	78	79	76	79	78	
Depth of well (feet)	232	232	232	232	232	
Analyzing laboratory	USGS	USGS	USGS	USGS	USGS	
Laboratory number	17224	20716	22071	23729	25670	

Well number	:	26S/40E-34N1		
Date of collection	:	9-18-58	:	11-20-59 : 8-11-60
Constituents in parts per million				
Silica ( $\text{SiO}_2$ )				48
Iron (Fe)				.01
Calcium (Ca)	20	28	27	
Magnesium ( $\text{Mg}$ )	4.9	4.9	8.1	
Sodium (Na)	72	73	63	
Potassium (K)	3.2	3.7	4.2	
Bicarbonate ( $\text{HCO}_3^-$ )	140	129	132	
Carbonate ( $\text{CO}_3^{2-}$ )	0	0	0	
Sulfate ( $\text{SO}_4^{2-}$ )	a24	a56	28	
Chloride (Cl)	65	62	74	
Fluoride (F)		.7	1.2	
Nitrate ( $\text{NO}_3^-$ )			5.6	
Boron (B)			.3	
Dissolved solids				
Calculated	a258	a292	a324	
Residue on evaporation at $180^\circ\text{C}$			342	
Hardness as $\text{CaCO}_3$	70	90	101	
Percent sodium	68	63	56	
Specific conductance (micromhos at $25^\circ\text{C}$ )	490	481	521	
pH	7.7	7.4	7.1	
Temperature ( $^\circ\text{F}$ )		79	78	
Depth of well (feet)	232	232	232	
Analyzing laboratory	USGS	USGS	USGS	
Laboratory number	27882	32240	34309	

Well number	26S/40E-36A1	26S/41E-6A1	26S/41E-7E1
Date of collection	3-8-54	9-22-53	7-9-53
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)	90	42	
Magnesium (Mg)	22	6.8	
Sodium (Na)	483	254	
Potassium (K)	24	8	
Bicarbonate ( $\text{HCO}_3^-$ )	118	178	
Carbonate ( $\text{CO}_3^{2-}$ )	0	0	
Sulfate ( $\text{SO}_4^{2-}$ )	262	2182	
Chloride (Cl)	875	5,110	255
Fluoride (F)			
Nitrate ( $\text{NO}_3^-$ )			.8
Boron (B)	3.7	77	1.2
Dissolved solids			
Calculated	21,620		2838
Residue on evaporation at 180°C			
Hardness as $\text{CaCO}_3$	315	29	133
Percent sodium	75		79
Specific conductance (micromhos at 25°C)	3,060	18,300	1,410
pH	7.6		7.7
Temperature (°F)	72		71
Depth of well (feet)	270.2	10.6	32.4
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	10799	9240	8205

Well number	26S/41E-7G1	26S/41E-7G2	26S/42E-29J1
Date of collection	7-9-53	4-5-54	6-26-53
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			
Iron (Fe)			
Calcium (Ca)	313		97
Magnesium ( $\text{Mg}$ )	11		12
Sodium ( $\text{Na}$ )	2,620		1,290
Potassium (K)	20		44
Bicarbonate ( $\text{HCO}_3$ )	26		71
Carbonate ( $\text{CO}_3$ )	0		0
Sulfate ( $\text{SO}_4$ )	41,000		44
Chloride (Cl)	3,880	1,440	21,200
Fluoride (F)			.4
Nitrate ( $\text{NO}_3$ )	12		.4
Boron (B)	26	19	.1
Dissolved solids			
Calculated	27,690		22,700
Residue on evaporation at $180^\circ\text{C}$			
Hardness as $\text{CaCO}_3$	2827	11	292
Percent sodium	87		89
Specific conductance (micromhos at $25^\circ\text{C}$ )	12,400	6,580	69,300
pH	7.0		7.5
Temperature ( $^\circ\text{F}$ )	70	68	
Depth of well (feet)	31.3	49.3	30.0
Analyzing laboratory	USGS	USGS	DRR
Laboratory number	8204	10798	P690

Well number	:	27S/38E-28R1	:	27S/38E-31D1
Date of collection	:	12-12-52	:	3-29-60
Constituents in parts per million				
Silica ( $\text{SiO}_2$ )			23	
Iron (Fe)				
Calcium (Ca)		36	6.2	
Magnesium (Mg)		10	0	
Sodium (Na)		46	64	
Potassium (K)		1.6	.4	
Bicarbonate ( $\text{HCO}_3$ )		153	88	
Carbonate ( $\text{CO}_3$ )		0	4.8	
Sulfate ( $\text{SO}_4$ )		47	25	
Chloride (Cl)		38	27	16
Fluoride (F)			1.1	8
Nitrate ( $\text{NO}_3$ )			17	13
Boron (B)			.05	.4
Dissolved solids				
Calculated		a284	a181	
Residue on evaporation at $180^\circ\text{C}$		262		
Hardness as $\text{CaCO}_3$		154	a131	a155
Percent sodium		42	90	
Specific conductance (micromhos at $25^\circ\text{C}$ )		534	432	305
pH			7.5	8.8
Temperature ( $^\circ\text{F}$ )		71	71	
Depth of well (feet)		300	300	
Analyzing laboratory		USGS	DWR	DWR
Laboratory number		7223	R3169	P689

Well number	27S/39E-7R1	27S/40E-1K1	27S/40E-1K2
Date of collection	3-14-55	3-29-60	1929
Constituents in parts per million			
Silica ( $\text{SiO}_3$ )		31	
Iron (Fe)			
Calcium (Ca)	35	32	68
Magnesium (Mg)	6	6	7
Sodium (Na)	50	47	b278
Potassium (K)	2.1	2.3	11
Bicarbonate ( $\text{HCO}_3$ )	149	140	110
Carbonate ( $\text{CO}_3$ )	0	0	0
Sulfate ( $\text{SO}_4$ )	53	48	43
Chloride (Cl)	26	25	452
Fluoride (F)	1.5	1	562
Nitrate ( $\text{NO}_3$ )	9.4	8.1	2.9
Boron (B)	.18	.1	
Dissolved solids			
Calculated	a256	a238	920
Residue on evaporation at $180^{\circ}\text{C}$	275	271	a1,130
Hardness as $\text{CaCO}_3$	112	105	a199
			234
Percent sodium	49	49	76
Specific conductance (micromhos at $25^{\circ}\text{C}$ )	442	432	983
pH	7.6	8.2	2,120
Temperature ( $^{\circ}\text{F}$ )			7.2
Depth of well (feet)	377	377	164
Analyzing laboratory	DWR	DWR	USGS
Laboratory number	5540	R3170	7378

Well number	27S/40E-1M1	27S/40E-3P1
Date of collection	6-4-53	6-1-53
Constituents in parts per million		
Silica ( $\text{SiO}_2$ )		
Iron (Fe)		
Calcium (Ca)	20	514
Magnesium (Mg)	7.2	140
Sodium (Na)	170	898
Potassium (K)	3.6	17
Bicarbonate ( $\text{HCO}_3$ )	192	322
Carbonate ( $\text{CO}_3$ )	0	0
Sulfate ( $\text{SO}_4$ )	a42	a300
Chloride (Cl)	178	2,300
Fluoride (F)		0
Nitrate ( $\text{NO}_3$ )	1.4	15
Boron (B)		16 6.9
Dissolved solids		
Calculated	a517	a4,340
Residue on evaporation at $180^{\circ}\text{C}$		a4,230
Hardness as $\text{CaCO}_3$	a79	1,860
Percent sodium	81	51
Specific conductance (micromhos at $25^{\circ}\text{C}$ )	923	7,420
pH	7.8	7.0
Temperature ( $^{\circ}\text{F}$ )	76	
Depth of well (feet)	199	120
Analyzing laboratory	USGS	DNR
Laboratory number	7380	P694

Well number	:	27S/40E-3R1	:	27S/40E-4B2	:	27S/40E-4F1
Date of collection	:	9-27-54	:	6-1-53	:	1949

Constituents in parts per million

Silica ( $\text{SiO}_3$ )

Iron (Fe)

Calcium (Ca)		17	28
Magnesium (Mg)		5.2	3.6
Sodium (Na)		63	b7 $\frac{1}{4}$
Potassium (K)		2.8	
Bicarbonate ( $\text{HCO}_3$ )		13 $\frac{1}{4}$	127
Carbonate ( $\text{CO}_3$ ) <sup>3</sup>		0	0
Sulfate ( $\text{SO}_4$ ) <sup>3</sup>		232	17
Chloride (Cl)	459	40	89
Fluoride (F)			
Nitrate ( $\text{NO}_3$ )	23	5.5	.9
Boron (B)			

Dissolved solids

Calculated		a232	276
Residue on evaporation at 180°C			
Hardness as $\text{CaCO}_3$	438	64	a85

Percent sodium		67	65
Specific conductance (micromhos at 25°C)	1,970	413	625
pH		7.8	7.8
Temperature (°F)	73	78	

Depth of well (feet)	162.3	375	
Analyzing laboratory	USGS	USGS	0
Laboratory number	13197	7370	

See footnotes at end of table.

Well number	:	275/40E-4LL		
Date of collection	:	7-1950	: 6-1-53 : 4-7-55	: 10-15-55

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	12	7.9	6.9
Magnesium (Mg)	4.8	2.5	5.1
Sodium (Na)	b104	127	110
Potassium (K)		2.1	2.5

Bicarbonate ( $\text{HCO}_3$ )	152	172	148
Carbonate ( $\text{CO}_3$ )	15	0	4
Sulfate ( $\text{SO}_4$ )	14	a49	a29
Chloride (Cl)	78	80	85
Fluoride (F)			.6
Nitrate ( $\text{NO}_3$ )	0	4.2	
Boron (B)			.64

Dissolved solids

Calculated	a303	a358	a317
Residue on evaporation at 180°C			
Hardness as $\text{CaCO}_3$	a50	30	38
			36

Percent sodium

Specific conductance  
(micromhos at 25°C)

pH

Temperature (°F)

Depth of well (feet)	252	252	252	252
Analyzing laboratory	0	USGS	USGS	USGS
Laboratory number		7370	14814	17233

See footnotes at end of table.

Well number	:	27S/4CE-4LL				
Date of collection	:	10-11-56	:	9-18-57	:	9-17-58
Constituents in parts per million						
Silica ( $\text{SiO}_2$ )						
Iron (Fe)						
Calcium (Ca)						
Magnesium (Mg)						
Sodium (Na)						
Potassium (K)						
Bicarbonate ( $\text{HCO}_3$ )						
Carbonate ( $\text{CO}_3$ )						
Sulfate ( $\text{SO}_4$ )						
Chloride (Cl)		88		99		90
Fluoride (F)						
Nitrate ( $\text{NO}_3$ )						
Boron (B)						
Dissolved solids						
Calculated						
Residue on evaporation at 180°C						
Hardness as $\text{CaCO}_3$		40		44		44
Percent sodium						
Specific conductance (micromhos at 25°C)						
pH		586		626		732
Temperature (°F)		81				7.4
Depth of well (feet)						
Analyzing laboratory		252		252		252
Laboratory number		USGS		USGS		USGS
		20717		23732		27881

Well number	27S/40E-7G1	27S/40E-8A1	27S/40E-9P1
Date of collection	8-11-60	6-1-53	6-1-53
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )	63		
Iron (Fe)	.01		
Calcium (Ca)	176	3.6	9.4
Magnesium (Mg)	33	.5	1.6
Sodium (Na)	414	131	190
Potassium (K)	11	1.6	2.5
Bicarbonate ( $\text{HCO}_3$ )	152	166	230
Carbonate ( $\text{CO}_3$ )	0	0	0
Sulfate ( $\text{SO}_4$ )	73	233	233
Chloride (Cl)	895	90	158
Fluoride (F)	.2		
Nitrate ( $\text{NO}_3$ )	13	.5	.7
Boron (B)	2.4		
Dissolved solids			
Calculated	21,760	2342	2508
Residue on evaporation at $180^\circ\text{C}$	2,040		
Hardness as $\text{CaCO}_3$	576	11	30
Percent sodium	60	96	96
Specific conductance (micromhos at $25^\circ\text{C}$ )	3,180	618	931
pH	7.4	8.2	7.9
Temperature ( $^\circ\text{F}$ )	86		
Depth of well (feet)	410	440	230
Analyzing laboratory	USGS	USGS	USGS
Laboratory number	34305	7372	7373

Well number	:	275/40E-10A1				
Date of collection	:	6-1-53	4-6-55	10-14-55	10-17-56	3-22-57

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	24	38				
Magnesium (Mg)	22	85				
Sodium (Na)	215	193				
Potassium (K)	5.3	5				
Bicarbonate ( $\text{HCO}_3$ )	188	200				
Carbonate ( $\text{CO}_3$ )	0	0				
Sulfate ( $\text{SO}_4$ )	260	254				
Chloride (Cl)	287	237	178	170	220	
Fluoride (F)		.6				
Nitrate ( $\text{NO}_3$ )	5.2					
Boron (B)		1.7				

Dissolved solids

Calculated	a712	a637				
Residue on evaporation at $180^{\circ}\text{C}$						
Hardness as $\text{CaCO}_3$	150	130	103	110	164	

Percent sodium

Specific conductance  
(micromhos at  $25^{\circ}\text{C}$ )

pH

Temperature ( $^{\circ}\text{F}$ )

Depth of well (feet)	150	150	150	150	150
Analyzing laboratory	USGS	USGS	USGS	USGS	USGS
Laboratory number	7376	14812	17229	20718	22072

Well number	:	27S/40E-10A1						
Date of collection	:	9-19-57	:	4-8-58	:	9-18-58	:	11-20-59
Constituents in parts per million								
Silica ( $\text{SiO}_2$ )								
Iron (Fe)								
Calcium (Ca)				48				
Magnesium (Mg)				14				
Sodium (Na)				170				
Potassium (K)				6				
Bicarbonate ( $\text{HCO}_3^-$ )				170				
Carbonate ( $\text{CO}_3^{2-}$ )				0				
Sulfate ( $\text{SO}_4^{2-}$ )				254				
Chloride (Cl)	235		248	256	210			
Fluoride (F)								
Nitrate ( $\text{NO}_3^-$ )								
Boron (B)								
Dissolved solids								
Calculated				632				
Residue on evaporation at 180°C								
Hardness as $\text{CaCO}_3$	180		218	2178	144			
Percent sodium				66				
Specific conductance (micromhos at 25°C)	1,150		1,250	1,240	1,080			
pH				7.5				
Temperature (°F)								
Depth of well (feet)	150		150	150	150			
Analyzing laboratory	USGS		USGS	USGS	USGS			
Laboratory number	23731		25669	27887	32239			

Well number	:	27S/4OE-10A2
Date of collection	:	6-1-53

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	167
Magnesium (Mg)	89
Sodium (Na)	320
Potassium (K)	12

Bicarbonate ( $\text{HCO}_3$ )	186
Carbonate ( $\text{CO}_3$ )	0
Sulfate ( $\text{SO}_4$ )	216
Chloride (Cl)	775
Fluoride (F)	
Nitrate ( $\text{NO}_3$ )	24
Boron (B)	

Dissolved solids

Calculated	al,700
Residue on evaporation at $180^{\circ}\text{C}$	
Hardness as $\text{CaCO}_3$	a783

Percent sodium	47
Specific conductance (micromhos at $25^{\circ}\text{C}$ )	3,050
pH	7.6
Temperature ( $^{\circ}\text{F}$ )	

Depth of well (feet)	126
Analyzing laboratory	USGS
Laboratory number	7375

Well number	:	27S/40E-1001		
Date of collection	:	7-9-53	: 9-27-54	: 4-6-55 : 10-14-55

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	183	203		
Magnesium (Mg)	44	35		
Sodium (Na)	580	560		
Potassium (K)	5.4	15		
Bicarbonate ( $\text{HCO}_3$ )	198	192		
Carbonate ( $\text{CO}_3$ )	0	0		
Sulfate ( $\text{SO}_4$ )	a206	a170		
Chloride (Cl)	1,080	1,120	1,100	1,120
Fluoride (F)			.6	
Nitrate ( $\text{NO}_3$ )	7.7	5.5		
Boron (B)	4.7		3.4	

Dissolved solids

Calculated	a2,210	a2,180		
Residue on evaporation at 180°C				
Hardness as $\text{CaCO}_3$	638	591	a651	135

Percent sodium	66	65		
Specific conductance (micromhos at 25°C)	3,850	3,840	3,680	4,000
pH	7.7		7.9	
Temperature (°F)	78	78	78	

Depth of well (feet)	250	250	250	250
Analyzing laboratory	USGS	USGS	USGS	USGS
Laboratory number	8161	13196	14811	17230

Well number	: 27S/40E-10H1	: 27S/40E-10J1
Date of collection	: 8-11-60	: 4-1-53
Constituents in parts per million		
Silica ( $\text{SiO}_2$ )	47	
Iron (Fe)	.01	
Calcium (Ca)	12	34
Magnesium (Mg)	1.9	11
Sodium (Na)	132	212
Potassium (K)	2.4	4.6
Bicarbonate ( $\text{HCO}_3$ )	194	162
Carbonate ( $\text{CO}_3$ )	0	0
Sulfate ( $\text{SO}_4$ )	37	a30
Chloride (Cl)	92	306
Fluoride (F)	1.6	
Nitrate ( $\text{NO}_3$ )	9.6	2.4
Boron (B)	1.1	2
Dissolved solids		
Calculated	a433	a425
Residue on evaporation at $180^{\circ}\text{C}$	466	
Hardness as $\text{CaCO}_3$	38	130
Percent sodium	88	77
Specific conductance (micromhos at $25^{\circ}\text{C}$ )	707	1,250
pH	7.5	8.3
Temperature ( $^{\circ}\text{F}$ )	77	78
Depth of well (feet)		180
Analyzing laboratory	USGS	
Laboratory number	34806	H
	70446	USGS
		8172

Well number	27S/40E-11D3	28S/37E-13F1	28S/38E-18R1
Date of collection	6-1-53	6-5-53	3-22-46
Constituents in parts per million			
Silica ( $\text{SiO}_2$ )			42
Iron (Fe)			
Calcium (Ca)	18	54	7
Magnesium (Mg)	3.9	7.5	1.9
Sodium (Na)	160	92	105
Potassium (K)	3.6	2	6
Bicarbonate ( $\text{HCO}_3$ )	200	86	246
Carbonate ( $\text{CO}_3$ )	0	0	trace
Sulfate ( $\text{SO}_4$ )	a45	82	22
Chloride (Cl)	142	138	15
Fluoride (F)		.4	6.1
Nitrate ( $\text{NO}_3$ )	3	14	
Boron (B)		.5	2.2
Dissolved solids			
Calculated	a474	a432	a230
Residue on evaporation at $180^\circ\text{C}$			a436 447
Hardness as $\text{CaCO}_3$	61	a166	a25
Percent sodium	84	54	87
Specific conductance (micromhos at $25^\circ\text{C}$ )	837	770	524
pH	7.8	8.0	7.9
Temperature ( $^\circ\text{F}$ )			7.5
Depth of well (feet)	165	400	284.0
Analyzing laboratory	USGS	DWR	USDA
Laboratory number	7377	P672	18707
			R3171

Well number	:	28S/403-2201	:	29S/413-27A1
Date of collection	:	4-1-60	:	10-5-17

Constituents in parts per million

Silica ( $\text{SiO}_2$ )	30	74
Iron (Fe)	.7	.09
Calcium (Ca)	97	32
Magnesium (Mg)	33	9.7
Sodium (Na)	52	a b67
Potassium (K)	3.1	
Bicarbonate ( $\text{HCO}_3$ )	183	176
Carbonate ( $\text{CO}_3$ ) <sup>b</sup>	0	10
Sulfate ( $\text{SO}_4$ ) <sup>c</sup>	73	59
Chloride (Cl)	135	27
Fluoride (F)	.7	
Nitrate ( $\text{NO}_3$ )	112	6.4
Boron (B)	.29	
Dissolved solids		
Calculated	a627	a372
Residue on evaporation at 180°C	678	387
Hardness as $\text{CaCO}_3$	378	a120
Percent sodium	23	
Specific conductance (micromhos at 25°C)	1,010	
pH	7.9	
Temperature (°F)		

Depth of well (feet)		380
Analyzing laboratory	DWR	USGS
Laboratory number	R3178	

- b. Potassium included with sodium.
- c. Nitrite included with bicarbonate.
- d. Well deepened from 157.9 to 554.7 ft.

Part B. Surface water

Location	:	1	:	2	:	3	:	4
Date of collection	:	3-22-46	:	3-20-46	:	3-21-46	:	3-19-46

Constituents in parts per million

Silica ( $\text{SiO}_2$ )

Iron (Fe)

Calcium (Ca)	25	58	103	60
Magnesium (Mg)	77	53	30	14
Sodium (Na)	14,400	185	86	54
Potassium (K)	343	18	3.4	3.8

Bicarbonate ( $\text{HCO}_3$ )	1,050	640	393	257
Carbonate ( $\text{CO}_3$ ) <sup>3</sup>	210	trace	0	trace
Sulfate ( $\text{SO}_4$ ) <sup>3</sup>	3,450	99	115	57
Chloride (Cl)	19,300	109	89	9.2
Fluoride (F)	29	1.1	.6	1.1
Nitrate ( $\text{NO}_3$ )	trace	1.2	trace	3.7
Boron (B)	177	3.2	.56	.09

Dissolved solids

Calculated a38,500 a3842 a3622 a310

Residue on evaporation at 130°C

Hardness as  $\text{CaCO}_3$  a379 a363 a381 a207

Percent sodium	97	51	33	26
Specific conductance (micromhos at 25°C)	49,900	1,410	1,060	526
pH	8.7	8.0	7.7	7.9
Temperature (°F)				

Analyzing laboratory	USDA	USDA	USDA	USDA
Laboratory number	18702	18698	18700	18696

1. Surface water in Salt Wells Canyon below bridge at 26S/40E-28A.
2. Surface flow from Little Lake, a quarter of a mile below lake.
3. Spring water in Mountain Springs Canyon about 1.7 miles above mouth of canyon.
4. Surface flow at mouth of Sand Canyon.

Table 4.--Logs of wells

Where the depth given in the log differs from that given in table 1, it indicates the well has been measured since it was drilled. The depth in table 1 is a measured depth on the date indicated. The depth in table 4 is the depth reported by the driller and is not necessarily the developed depth of the well.

23S/39E-21K1. Test well drilled by Evans Bros., logged by Roland von Huene. Altitude about 2,289 ft.

	Thickness (feet)	Depth (feet)
Clay and silt with beds of fine brown sand -----	18	18
Sand with some clay and silt, olive-green -----	4	22
Clay and silt, olive-green -----	2	24
Sand, fine-grained, light olive-green -----	12	36
Clay and silt, olive-green, with some beds of fine sand	9	45
Sand, fine-grained, with minor gravel, color is light olive-green -----	12	57
Clay and silt, with 20 percent sand and 2 percent gravel, light olive-green -----	11	68
Sand, gravel, and minor clay and silt. Color is light olive-green -----	16	84
Coarse sand and gravel -----	2	86
Sand, fine-grained, with minor silt -----	4	90
Clay and silt, olive-green -----	1	91
Sand and 10 percent gravel -----	7	98
Gravel -----	2	100
Sand, 28 percent clay and silt, and 10 percent gravel -----	12	112
Sand and gravel with black clay and silt -----	9	121
Sand, gravel, and minor black silt -----	5	126
Clay and silt, olive-green and brown -----	7	133
Clay and silt, black, dark olive-green, dark brown -----	7	140
Scoriaceous basalt and andesite scoria -----	1	141

233/39E-21Q1. Test well drilled by Evans Bros., logged by Roland von Huene. Altitude about 2,289 ft.

	Thickness (feet)	Depth (feet)
Clay and silt, brown and buff, cut by thin beds of sand	15	15
Clay and silt, brown and olive-green -----	16	31
Clay and silt with scattered fine sand, olive-green -----	45	76
Scoriaceous basalt breccia or conglomerate -----	2	78

235/39E-21R1. Test well drilled by Evans Bros., logged by Roland von Huene. Altitude about 2,289 ft.

Clay, silt, and minor fine sand, brown -----	15	15
Clay and silt, brown and olive-green. Bed of green limestone at 23 ft -----	13	28
Clay and silt, olive-green -----	20	48
Clay and silt with 7 percent fine sand -----	16	64
Clay and silt, black, with minor sand -----	13	77
Sand, 68 percent with clay and silt -----	2	79
Sand, silt, and clay. Sand is rust colored; clay is black	6	85
Clay and silt, black -----	16	101
Vesicular basalt -----	1	102

236/39E-22L1. Test well drilled by Evans Bros., logged by Roland von Huene. Altitude about 2,295 ft.

Sand, gravel, pebbles and minor silt and clay of buff color	8	8
Clay and silt with some pebbles and sand, brown -----	13	21
Sand with some gravel, clay and silt and pebbles -----	1	22
Gravel and sand with thin beds of clay and silt -----	34	56

23S/39E-22N1. Test well dug with clamshell, logged by Roland von Huene. Altitude about 2,290 ft.

Clay and silt, brown, with scattered pumice pebbles. Sand occurs in two thin beds -----	16	16
Clay and silt, brown and olive-green -----	5	21
Clay and silt, olive-green -----	11	32
Clay, silt and some sand, olive-green -----	11	43
Sand with some silt and clay, light olive-green -----	6	49
Clay and silt with scattered sand grains, olive-green -----	4	53
Sand, rust and yellow, cemented locally -----	2	55
Clay and silt, olive-green -----	11	66
Clay and silt, olive-green to black, with 6-inch beds of sand	5	71
Clay and silt, black, massive -----	5	76
Sand, black -----	2	78
Clay and silt, with some sand and gravel, black -----	7	85
Clay with increasing quantities of fine sand, black -----	10	92
Sand and volcanic pebbles, black -----	12	107

23S/39E-22Pl. Test well drilled by Evans Bros., logged by Roland von Huene. Altitude about 2,290 ft.

	Thickness (feet)	Depth (feet)
Gravel, sand, silt and clay, brown, buff and gray -----	11	11
Clay and silt, brown -----	3	1 $\frac{1}{4}$
Clay and silt with minor sand, olive-green -----	26	40
Sand, medium-grained, brownish-green, with clay and silt, olive-green -----	7	47
Clay and silt, olive-green, with some sand -----	1	48
Clay, silt, and sand, interbedded, olive-green -----	16	64
Sand, coarse and fine, unconsolidated -----	8	72
Clay, sandy and gravelly, olive-green -----	1	73
Clay and silt with minor fine sand, olive-green -----	2	75
Sand and gravel, unconsolidated -----	4	79
Clay and silt, olive-green, well-bedded -----	6	85
Coarse sand and gravel -----	1	86
Clay and silt with gravel, olive-green -----	7	93
Clay, silt, and gravel with pebbles and cobbles -----	4	97
Silt and clay with scattered pebbles -----	4	101
Basalt scoria -----	1.8	102.8

23S/39E-26R1. Test well drilled by Evans Bros., logged by Roland von Huene. Altitude about 2,289 ft.

Clay and silt with minor sand -----	13	13
Clay and silt, brown and olive-green -----	11	24
Silt, clay and fine sand, light olive-green -----	6	30
Clay and silt, olive-green -----	22	52
Clay and silt, olive-green with volcanic pebbles and cobbles -----	4	56
Silt and clay with fine sand, olive-green and brown. Limestone bed at 59 ft. Bedding good -----	8	64
Basalt and andesite scoria in a breccia or conglomerate	4	68

23S/39E-27El. Test well drilled by Evans Bros., logged by Roland von Huene. Altitude about 2,289 ft.

Clay and silt, brown, with scattered sand -----	15	15
Clay and silt, olive-green and dark brown, with some fine sand -----	23	38
Clay and silt, olive-green with 9 percent fine sand grains -----	30	63
Clay and silt, black, showing intermittent bedding -----	17	85
Silt, clay, and fine sand, black -----	3	88
Silt, fine sand, and clay, black, with 30 percent pebbles -----	3	91
Sand, clay and silt, black -----	7	98
Scoriaceous basalt -----	1	99

23S/39E-28Cl. Test well drilled by Evans Bros., logged by Roland von Huene. Altitude about 2,289 ft.

	Thickness (feet)	Depth (feet)
Clay and silt, light brown, with some fine sand -----	15	15
Clay and silt, olive-green and dark brown -----	14	29
Clay and silt, olive-green; contains 4 percent sand -----	19	48
Clay and silt, olive-green, with 40 percent fine sand -----	1	49
Scoriaceous basalt -----	.5	49.5

23S/39E-28H1. Test well drilled by Evans Bros., logged by Roland von Huene. Altitude about 2,289 ft.

Clay and silt, buff and brown, cut by thin beds of fine sand -----	15	15
Clay and silt, brown and green, with minor sand -----	16	31
Clay and silt, green, with less than 5 percent sand -----	45	76
Clay and silt, black, well-compacted -----	25	101

24S/38E-28Q1. Drilled and logged by F. Rottman. Casing perforated 300-450 ft. Altitude 2,542.9 ft.

Sand and rock -----	100	100
Boulders and sand -----	100	200
Clay and sand -----	100	300
Clay -----	30	330
Sand and clay -----	20	350
Clay -----	30	380
Sand -----	20	400
Sand and clay -----	52	452

24S/40E-34E1. Test well logged by Ground Water Branch. Screen from 20.3 to 22.3 ft., gravel packed. Altitude 2,176.7 ft.

Sand -----	3	3
Clay, sticky, green -----	10	13
Clay, silty, with water -----	10	23

24S/40E-35J1. Test well logged by Ground Water Branch. Slotted pipe from 6.0 to 7.0 ft, gravel packed. Altitude 2,170 ft.

Clay, silty, yellow -----	0.5	0.5
Clay, sticky, blue -----	3.0	3.5
Clay, sandy, blue -----	3.5	7.0

24S/40E-35Q1. Test well logged by Ground Water Branch. Altitude 2,173 ft.

	Thickness (feet)	Depth (feet)
Clay, silty, yellow -----	5.0	5.0

25S/38E-15B1. Drilled and logged by C. C. Scott. Perforated 302-422 ft. Altitude about 2,510 ft.

Sand and gravel -----	335	335
Clay -----	45	380
Sand -----	5	385
Clay -----	50	435

25S/38E-25L1. Log from Thompson (1929). Casing perforated 212-232 ft. Altitude 2,329.2 ft.

No record -----	212	212
Gravel, water-bearing -----	20	232
No record -----	25	257

25S/38E-35B1. Log from Thompson (1929). Drilled by Siebenthal. Casing perforated 200-298 ft. Altitude 2,402.8 ft.

Clay, hard, with layers of loose white sand -----	202	202
Clay, with layers of water-bearing sand -----	30	232
Clay, hard, red -----	4	236
Gravel, good, water-bearing -----	14	250
Gravel, good, water-bearing, with thin layers of soft clay	51	301

25S/39E-4P1. Log from Thompson (1929). Altitude about 2,265 ft.

Lava boulders encountered at unspecified depth

25S/39E-4R1. Drilled and logged by Evans Bros. Gravel packed.  
Altitude 2,252.6 ft.

	Thickness (feet)	Depth (feet)
Surface sand -----	5	5
Boulders and sand -----	15	20
Sand and occasional boulders -----	10	30
Sand -----	15	45
Clay -----	1	46
Sand -----	9	55
Clay, sandy -----	14	69
Gravel -----	1	70
Sand -----	17	87
Sand and boulders -----	16	103
Sand with streaks of sandy clay -----	4	107
Sand and boulders -----	2	109
Sand with streaks of clay -----	19	123
Boulders -----	2	130
Sand -----	5	135
Boulders -----	3	138
Sand with occasional boulders -----	37	175
Clay -----	10	185
Sand with streaks of clay -----	10	195
Sand -----	5	200

25S/39E-14N1. Log from Lee (1913). Altitude 2,224.1 ft.

Soil and sand -----	38	38
Gravel, water-bearing -----	25	63
Clay -----	8	71
Gravel -----	4	75
Clay -----	18	93
Gravel, water-bearing -----	8	101
Clay -----	19	120
Gravel, water-bearing -----	25	145
Sand, fine -----	10	155
Clay, sandy, blue -----	45	200

## 25S/39E-18N1. Log from Lee (1913). Altitude 2,280 ft.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Soil, sand & gravel	160	160	Sand, cemented -----	4	269
Gravel, water-bearing	20	180	Gravel, water-bearing	3	272
Clay -----	62	242	Clay -----	13	285
Gravel, water-bearing	5	247	Gravel, water-bearing	5	290
Clay -----	2	249	Clay -----	4	294
Sand, fine -----	16	265	Gravel, water-bearing	31	325

## 25S/39E-24M1. Log from Thompson (1929). Altitude 2,203.5 ft.

Well penetrated 59 ft of good gravel (depth not given)	
Clay, blue, at 151 ft -----	151+

## 25S/39E-26H1. Drilled and logged by Evans Bros. Altitude 2,202.8 ft.

Sand, surface -----	20	20	Clay -----	1	140
Sand, silty -----	9	29	Sand and boulders ---	10	150
Sand, with thin streaks of clay ---	22	51	sand, cemented -----	10	160
Sand, with a few boulders -----	14	65	Gravel and sand -----	35	195
Sand -----	50	115	Clay, blue -----	4	199
Clay -----	1	116	Clay, blue-black, and sand -----	101	300
Sand -----	23	139	Clay, blue-black ----	2	302

## 25S/40E-7M1. Log from Thompson (1929). Altitude 2,197.2 ft.

No record -----	16	16	Gravel -----	25	140
Clay, gray -----	99	115	Clay, gray and blue	8	148

25S/40E-8A1. Test well logged by Ground Water Branch. Slotted pipe  
from 12.8 to 18.8 ft, sand packed. Altitude 2,183.2 ft.

Silt, argillaceous --	18.8	18.8	
-----------------------	------	------	--

25S/40E-12M2. Test well logged by Ground Water Branch. Slotted pipe  
from 3.0 to 5.0 ft. Altitude 2,162.4 ft.

Sand, silty -----	4.5	4.5	Sand -----	0.5	5.0
-------------------	-----	-----	------------	-----	-----

## 250/4OE-18Bl. Log from Thompson (1929). Altitude 2,195 ft.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
No record -----	22	22	Gravel -----	7	152
Gravel, water-bearing	20	42	Clay, blue -----	8	160
Clay, gray -----	103	145			

## 250/4OE-24Nl. Test well logged by Ground Water Branch. Screen from 28.9 to 30.9 ft, gravel packed. Altitude 2,159.7 ft.

Sand, silty, green, micaceous -----	20	20
Sand, coarse; water -----	10.9	30.9

250/4OE-25Pl. Log from the files of the U.S. Geological Survey, Mineral Deposits Branch. Well cased from surface to 60 ft, plug at 107 ft. Altitude 2,151.8 ft. Log from cores by W. P. Pratt and G. I. Smith; most microscopic determinations by R. D. Allen, Mineral Deposits Branch.

Sand, very fine to coarse, average medium; minor silt and clay. Grayish-yellowish-orange.		
Massive. Badly shattered during drilling -----	3.5	3.5
Sand, very fine to coarse, average medium. Dusky-yellow. Massive -----	2.0	5.5
No record -----	4.5	10.0
Clay, very micaceous; slightly sandy at base. Grayish-olive. Massive. Small gastropod noted at 11.4 ft -----	1.6	11.6
Sand, fine to medium; locally clayey. Fair sorting. Grayish-olive. Massive -----	1.2	12.8
No record -----	7.2	20.0
Clay, slightly silty at base. Light-yellowish-gray where dry. Massive. Ostracods sparse to common; gastropod cast noted; plant fibers locally sparse -----	3.5	23.5
Clay and silt, local fine sand. Pale-olive. Indistinct thin bedding. Ostracods sparse to common -----	1.0	24.5
Clay, locally silty. Moderate-yellowish-brown and pale-olive. Generally massive, local pronounced laminar bedding. Ostracods noted -----	4.8	29.3
Sand, fine; clay matrix. Grayish-olive. Generally massive. Ostracods noted. In middle of unit is a 1/2-inch bed of clay, grayish-yellow -----	.7	30.0
Gravel, grading down to clay. Colors mottled, grayish-olive to yellowish-gray -----	.9	30.9
Sand, fine to medium, with clay matrix; proportion of clay variable, higher at base. Pale-olive. Massive. Grades into unit below -----	5.3	36.2
Clay; contains up to about 5 percent fine to coarse sand. Grayish-olive. Massive -----	1.6	37.8

	Thickness (feet)	Depth (feet)
Clay; contains up to about 5 percent very fine to coarse sand. Pale-greenish-yellow. Generally massive; local laminar bedding. Contains up to about 1 percent calcite as clusters of euhedral crystals -----	2.2	40.0
Clay; local zones contain silt and sand. Grayish-olive. Massive. Calcite noted, similar to that in unit above. One small mollusk noted -----	2.4	42.4
Sand, very fine to coarse, average medium; clay matrix. Pale-greenish-yellow. Massive -----	6.3	48.7
Clay, slightly sandy. Pale-greenish-yellow with streaks of grayish-orange. Massive -----	.4	49.1
No record -----	.9	50.0
Clay, slightly sandy; similar to 48.7 to 49.1 -----	2.3	52.3
Clay, locally silty or sandy. Grayish-olive and very pale-orange. Massive. Rhombs of calcite noted -----	3.7	56.0
Clay, slightly sandy. Pale-olive. Contains clustered rhombs of calcite -----	1.7	57.7
Sand, medium, grading down to sandy clay. Pale-olive. Massive -----	1.3	59.0
No record -----	1.0	60.0
Clay, slightly sandy. Grayish-olive. Massive. Shell fragments noted near top -----	5.3	65.3
Clay. Pale-greenish-yellow. Local faint bedding. Ostracods noted -----	1.2	66.5
Clay, sandy. Grayish-yellow-green. Generally massive; local contorted laminar bedding. At 67.3 ft is a 1-inch zone of clay containing pockets of calcite as medium sand sized rhombs -----	1.9	68.4
No record -----	1.6	70.0
Clay with variable amounts of sand. Yellowish-gray to pale-olive; somewhat darker in damp portions. Local faint bedding. Calcite crystals noted locally -----	5.6	75.6
No record -----	4.4	80.0
Clay, locally sandy. Grayish-olive. Massive. Clusters of calcite rhombs noted locally -----	3.8	83.8
Clay, grading down to silt in lower foot. Colors range from moderate-yellow with streaks of pale-olive, in upper part, to dusky-yellow in lower part. Thin to laminar color banding; locally massive. Calcite clusters noted in upper part -----	3.3	87.1
No record -----	2.9	90.0
Clay, locally sandy, similar to 80.0 to 83.8 ft -----	6.9	96.9
No record -----	3.1	100.0
Clay, sandy; sandy material forms about 10 percent of core and consists of rhombs of calcite -----	1.3	101.3
Clay, slightly sandy. Grayish-olive to pale-olive. Massive. Contains some calcite as rhombs -----	3.8	105.1
No record -----	4.9	110.0
Clay, slightly sandy, with minor calcite. Grayish-olive to moderate-olive-brown. Massive. Grades into unit below ---	4.9	114.9

	Thickness (feet)	Depth (feet)
Clay, grading down into crystal gravel. Gaylussite crystals range in percentage from about 10 in upper part to about 60 at base and range in size to about 10 mm., average about 4 mm. Microscopic examination shows that calcite, in minor amounts, extends at least down to middle of unit and is coexistent with gaylussite. Dusky-yellowish-gray and pale-olive. Massive -----	4.1	119.0
No record -----	1.0	120.0
Clay; contains about 5 percent gaylussite and minor calcite as sand-sized crystals; probably some silicate sand -----	4.5	124.5
Crystal sand, coarse to very coarse at top, grading down to fine at bottom; clay matrix. Sand is mostly gaylussite, some calcite. Light-greenish-gray with streaks of dark-yellowish-orange. Pseudo-bedding defined by color changes	3.1	127.6
No record -----	2.4	130.0
Clay; contains gaylussite and minor calcite which range from a trace at top and bottom to about 30 percent in the middle of the unit. Crystals average sand size. Grayish-olive and dusky-yellowish-gray. Massive -----	4.8	134.8
Crystal sand; gaylussite and minor calcite crystals in a clay matrix. Crystals average very coarse sand size. Grayish-olive to pale-olive. Massive -----	2.4	137.2
No record -----	2.8	140.0
Clay. Sand-sized gaylussite and minor calcite crystals constitute up to 10 percent. Grayish-olive. Massive -----	6.3	146.3
Clay; trace of calcite crystals. Pale olive with small streaks of grayish-orange. Massive -----	1.1	147.4
No record -----	2.6	150.0
Clay, minor calcite. Grayish-olive. Massive -----	2.3	152.3
Clay with up to 10 percent gaylussite. Grayish-olive, moderate-olive-brown and light-olive-gray. Massive -----	1.9	154.2
Crystal gravel grading down to crystal sand; consists of gaylussite crystals up to 5 mm. in a clay matrix. Pale-olive. Indistinct bedding in lower part -----	2.6	156.8
No record -----	3.2	160.0
Crystal gravel; gaylussite crystals and fragments up to about 6 mm., in matrix of clay which makes up 30 or 40 percent of the core. Pale-olive to greenish-gray. Local thin bedding caused by layered concentration of gaylussite crystals -----	1.0	161.0
Clay with about 5 percent sand-sized crystals of gaylussite. Colors mottled: dusky-yellowish-gray and grayish-olive. Massive -----	.5	161.5
Crystal gravel; gaylussite crystals and fragments up to about 15 mm., in a matrix of clay which makes up about 30 to 40 percent of core. Grayish-olive. Massive; crystals randomly oriented -----	1.1	162.6

		Thickness (feet)	Depth (feet)
Interbedded sand and clay. Sand is fine to medium, consists mainly of gaylussite, with minor biotite and other silicates, in a clay matrix. Locally, gaylussite forms a cement that shows a single large cleavage face. Pale-olive and dusky-yellowish-gray.			
Thin bedding -----	.4	163.0	
Crystal gravel, similar to 161.5 to 162.6 ft -----	1.3	164.3	
Crystal sand grading downward from coarse to very fine. Sand is mainly quartz, with a trace of feldspar, cemented by gaylussite. Light-greenish-gray. Indistinct thin bedding -----	.9	165.2	
No record -----	4.8	170.0	
Clay, with about 3 percent sand consisting of silicates and fragments of gaylussite. Grayish-olive. Massive -----	2.7	172.7	
Silt and very fine sand, locally clayey. Light-greenish-gray to pale-greenish-yellow. Massive. At 172.8 ft is a 2-inch bed of clay containing about 3 percent gaylussite -----	4.2	176.9	
No record -----	3.1	180.0	
Sand, very fine; consists of fragments and crystals of quartz, mica, gaylussite and probably calcite. Yellowish-gray and pale-olive. Minor thin indistinct bedding -----	.4	180.4	
Clay, with a small amount of gaylussite and minor calcite. Grayish-olive. Massive -----	2.4	182.8	
No record -----	7.2	190.0	
Clay, with a small amount of gaylussite and minor calcite. Grayish-olive. Massive. At base is a 2-inch bed of fine gaylussite sand, well-indurated, with a clay matrix -----	2.8	192.8	
No record -----	7.2	200.0	
Clay, slightly sandy. Grayish-olive to moderate-olive-brown. Massive -----	4.1	204.1	
No record -----	5.9	210.0	
Clay, slightly sandy, similar to 200.0 to 204.1 ft -----	.7	210.7	
Sand, very fine; locally clayey. Sand consists of quartz, silicate, and calcite. Pale-olive to grayish-olive. Thin indistinct bedding -----	3.2	213.9	
Sand, fine; clayey. Yellowish-gray. Massive -----	.4	214.3	
No record -----	5.7	220.0	
Clay, with crystals and fragments of gaylussite; sandy in upper part. Greenish-olive to pale-olive. Massive. Grades into unit below. At 221.9 ft is a pocket of sand containing several small gastropod shells. At 222.7 ft two rounded pebbles of dark-gray limestone were noted -----	5.9	225.9	
Clay, slightly silty, sandy at base. Pale-greenish-yellow and yellowish-gray. Thin indistinct bedding. Ostracods common to abundant -----	1.8	227.7	

		Thickness (feet)	Depth (feet)
Silt, clayey. Yellowish-gray to pale-greenish-yellow.			
Thin indistinct bedding -----	2.2	229.9	
No record -----	.1	230.0	
Silt grading down to silty clay. Dusky-yellowish-gray to pale-olive-gray. Thin indistinct bedding -----	5.9	235.9	
No record -----	4.1	240.0	
Clay, slightly sandy. Grayish-olive to dark-greenish-gray.			
Massive. Poorly consolidated -----	2.4	242.4	
Clay, slightly silt. Light-olive-gray to dusky-yellowish-gray. Local thin bedding -----	2.8	245.2	
No record -----	14.8	260.0	
Clay. Grayish-olive to dark-greenish-gray with streaks of moderate-yellowish-brown. Massive. Poorly consolidated in upper part. Grades into unit below -----	5.2	265.2	
Clay. Grayish-olive to pale-olive with streaks of moderate-yellowish-brown. Thin to laminar bedding -----	3.6	268.8	
No record -----	1.2	270.0	
Clay. Grayish-olive. Massive -----	1.4	271.4	
Clay. Yellowish-gray. Thin to laminar bedding defined by color changes -----	6.4	277.8	
Clay. Grayish-olive. Massive -----	.6	273.4	
No record -----	1.6	280.0	
Clay, similar to 277.8 to 278.4 ft -----	1.3	281.3	
Clay. Pale-olive to light-olive-gray. Bedding thin to laminar; fissile fracture. Ostracods common to abundant -----	1.0	282.3	
Clay. Grayish-olive. Massive. At 284.3 ft a few basalt(?) pebbles up to 15 mm. across were noted -----	2.8	285.1	
No record -----	4.9	290.0	
Clay. Grayish-olive. Massive -----	5.3	295.3	
Clay. Light-olive-gray and yellowish-gray. Bedding thin to laminar, locally massive; bedding defined by color changes -----	4.2	299.5	
Clay -----	.5	300.0	
Clay, slightly sandy. Grayish-olive. Massive -----	5.1	305.1	
Clay, slightly silty. Pale-olive to yellowish-gray.			
Laminar bedding -----	1.0	306.1	
No record -----	3.9	310.0	
Clay. Grayish-olive. Massive. Poorly consolidated -----	1.2	311.2	
Clay interbedded with silt and fine sand. Grayish-olive to light-olive-gray to yellowish-gray. Thin to laminar bedding; fissile fracture. Ostracods sparse -----	1.6	312.8	
Silt and very fine sand, locally clayey. Pale-olive and yellowish-gray. Faint thin bedding defined by color changes. Ostracods(?) noted -----	7.2	320.0	
Clay, slightly sandy. Similar to 300.0 to 305.1 ft.			
May be slump, not core -----	4.2	324.2	

		Thickness (feet)	Depth (feet)
Clay, silty. Pale-olive-gray. Thin faint bedding.			
Ostracods sparse -----	.7	324.9	
No record -----	5.1	330.0	
Clay, slightly sandy. Similar to 300.0 to 305.1 ft -----	1.2	331.2	
Clay, slightly silty. Pale-olive-gray to dusky-yellowish-gray. Thin to laminar bedding -----	4.0	335.2	
Clayey silt grading down to clay. Light-olive-gray to dark-greenish-gray to pale-olive. Thin bedding.			
Ostracods locally abundant -----	1.3	336.5	
No record -----	3.5	340.0	
Clay, locally silty. Light-olive-gray to grayish-olive to pale-greenish-yellow. Thin bedding defined by color changes.			
Ostracods locally common -----	4.1	344.1	
Clay, slightly sandy. Grayish-olive to dark-greenish-gray.			
Massive -----	1.7	345.8	
No record -----	4.2	350.0	
Clay, slightly sandy. Grayish-olive to dark-greenish-gray.			
Massive. Ostracods sparse at top -----	3.9	353.9	
Clay interbedded with silt. Grayish-olive and light-olive-gray. Distinct thin to laminar bedding defined by both color and compositional changes. Ostracods locally sparse between 354.9 and 355.9 ft -----	4.2	358.1	
No record -----	1.9	360.0	
Clay, slightly sandy. Grayish-olive to dark-greenish-gray.			
Massive -----	.4	360.4	
Alternating clay and silt. Dusky-yellowish-gray to pale-olive. Irregular bedding ranges from laminar up to 2 inches. Ostracods locally sparse in silty portions -----	6.1	366.5	
Sand, very fine. Yellowish-gray. Massive -----	.8	367.3	
Alternating clay and silt, similar to 360.4 to 366.5 ft -----	1.7	369.0	
Sand, medium. Yellowish-gray. Massive -----	.2	369.2	
Silt, with minor clay. Pale-olive-gray to dusky-yellowish-gray. Faint thin bedding -----	.8	370.0	
Clay, slightly sandy. Grayish-olive to dark-greenish-gray.			
Massive -----	3.1	373.1	
Silt. Pale-olive-gray to dusky-yellowish-gray. Massive -----	.9	374.0	
Clay and minor silt. Pale-olive. Silt forms laminar beds. At base is a 1-inch bed of fine-grained opal; very pale-orange and very pale-purple -----			
	.7	374.7	
Silt with minor clay. Pale-olive to pale-olive-gray.			
Local thin bedding -----	.6	375.3	
No record -----	4.7	380.0	
Clay, slightly sandy. Similar to 370.0 to 373.1 ft. Includes a 1-inch pebble of dark fine-grained metamorphic(?) rock -----			
	.9	380.9	
Clay, silty. Pale-olive-gray to pale-olive. Massive. At base is a 1-inch bed of fine-grained opal, medium-gray and moderate-orange -brown -----			
	1.1	382.0	

## 253/40E-25Pl.--Continued.

	Thickness (feet)	Depth (feet)
No record -----	8.0	390.0
Clay, slightly sandy. Similar to 370.0 to 373.1 ft -----	.8	390.8
Alternating silt and clay. Yellowish-gray to pale-olive. Irregular beds range in thickness from laminar up to 2 inches -----	8.0	398.8
No record -----	1.2	400.0
Clay, slightly sandy. Similar to 370.0 to 373.1 ft -----	.8	400.8
Silt grading down to clay. Yellowish-gray to pale-olive to pale-greenish-yellow. Bedding thin to laminar. Ostracods locally common in upper part, locally abundant in lower part -----	1.6	402.4
Silt, minor clay. Light-greenish-gray to yellowish-gray. Generally massive; local thin banding defined by color changes and clay -----	5.3	407.7
No record -----	2.3	410.0
Silt, minor clay. Similar to 402.4 to 407.7 ft -----	1.2	411.2
Clay, slightly sandy. Similar to 370.0 to 373.1 ft -----	.4	411.6
Silt, minor clay. Similar to 402.4 to 407.7 ft -----	5.6	417.2
No record -----	2.8	420.0
Clay, slightly silty. Grayish-olive and dark-greenish-gray. Massive. Grades into unit below -----	.6	420.6
Clay, slightly silty. Yellowish-gray to pale-olive. Slightly darker. Massive zones alternate with laminar beddings. At 426.3 ft is a 1-inch bed consisting virtually of an isotropic material with a refractive index of 1.47; may be glass or opal -----	6.0	426.6
No record -----	3.4	430.0
Clay, slightly silty in lower part. Grayish-olive to dark-greenish-gray. Massive -----	2.6	432.6
Silt and clay. Yellowish-gray, pale-olive and light- greenish-gray. Bedding in upper 3 ft is distinctly varve-like; remainder of unit generally massive with faint local laminar bedding -----	7.4	440.0
Clay; slightly sandy, especially in bottom 6 inches. Grayish-olive and dark-greenish-gray. Massive -----	7.2	447.2
Silt grading down to very fine sand in lower foot. Yellowish-gray to light-greenish-gray. Generally massive; local faint bedding. Trace of glass noted in fine sand near the base -----	2.8	450.0
Clay. Grayish-olive and dark-greenish-gray. Massive -----	1.8	451.8
Sand, very fine; minor clay and silt. Yellowish-gray. Generally massive. Clay and silt form local thin beds -----	4.9	456.7
No record -----	3.3	460.0
Silt, minor clay. Yellowish-gray, light-greenish-gray, and pale greenish-yellow. Generally massive; local laminae of clay in lower half -----	2.8	462.8
Clay and silt, minor sand. Pale-olive to yellowish-gray. Laminar bedding. Ostracods common to abundant -----	1.1	463.9

## 25S/40E-25Pl.--Continued.

	Thickness (feet)	Depth (feet)
No record -----	6.1	470.0
Clay, silty. Grayish-olive. Massive -----	.4	470.4
Silt and clay. Pale-olive and light-greenish-gray. Thin to laminar bedding defined by clay alternating with silt. At 472.1 ft is a 1/4-inch bed of very light-gray fine-grained material which has a refractive index of 1.47 and may be either opal or glass -----	2.3	472.7
Clay, slightly sandy. Grayish-olive and dark-greenish-gray. Massive -----	3.3	476.0
No record -----	4.0	480.0
Silt and minor clay. Yellowish-gray and pale-olive. Bedding consists of 1/4-inch beds of silt separated by partings of clay. At base of this unit is a 1/2-inch zone of fine-grained opal with a refractive index of about 1.465; also present are potash, feldspar, quartz, calcite, and an opaque material, which form about 10 percent of the total -----	1.2	481.2
Silt and clay. Silt predominates in the upper and lower thirds; clay predominates in the middle. Light-greenish-gray, pale-olive and yellowish-gray. Indistinct thin bedding; locally massive especially in clay. Ostracods sparse. At 484.0 ft is a 1/8-inch bed of fine-grained light-gray material, megascopically similar to that at 472.1 ft -----	5.4	486.6
No record -----	3.4	490.0
Clay, slightly sandy. Similar to 472.7 to 476.0 ft -----	.7	490.7
Clay, silt, and compact fine-grained opal(?), in an irregular mixture. Yellowish-gray to pale-greenish-yellow to grayish-olive. Probably massive; badly shattered during drilling. Opal(?) is megascopically similar to that in the unit between 480.0 and 481.2 ft ---	.8	491.5
Sand, very fine. Yellowish-gray to pale-greenish-yellow. Faint thin bedding -----	.7	492.2
Clay and silt. Pale-olive and dusky-yellowish-gray. Bedding thin to laminar, faint in upper part, distinct in lower part; local massive zones. Ostracods locally common -----	5.3	497.5
Silt and fine sand; some medium to coarse sand in lower half. Light-greenish-gray. Generally massive; local faint bedding -----	2.5	500.0
Clay; contains a few pebbles or concretions. Grayish-olive and dark-greenish-gray. Massive -----	2.2	502.2
Sand, fine; coarser in upper 1 ft. Yellowish-gray to pale-olive. Faint thin bedding -----	5.6	507.8
No record -----	2.2	510.0
Silt and very fine sand, minor clay. Yellowish-gray. Faint bedding at top -----	1.3	511.3

## 251/40E-25Pl.--Continued.

	Thickness (feet)	Depth (feet)
Clay and silt. Pale-olive and yellowish-gray. Laminar bedding defined by alternating clay and silt and color changes; fissile fracture. At 515.7 ft is a 1/2-inch bed of fine-grained very light-gray, isotropic material with an average index of 1.475; probably opal -----	6.3	517.6
No record -----	2.4	520.0
Clay, sandy. Grayish-olive and dark-greenish-gray. Massive. Poorly consolidated -----	2.2	522.2
Sand, fine; contains fine-grained calcite. Yellowish-gray and light-greenish-gray. Faint thin bedding -----	1.4	523.6
No record -----	6.4	530.0
Silty clay; less silty in lower 1 ft. Yellowish-gray to light-greenish-gray. Generally thin-bedded with fissile fracture; locally massive -----	10.0	540.0
Clay, slightly sandy in lower part. Dark-greenish-gray and grayish-olive. Massive -----	2.0	542.0
Clay, slightly silty. Pale-olive-gray to pale-olive to light-olive-gray. Laminar bedding; fissile fracture -----	6.1	548.1
Glass, fine-grained. Very light-gray. In 1/4-inch beds, separated by partings of a darker material. Isotropic; refractive index about 1.478 -----	.1	548.2
Clay and minor silt. Pale-olive. Thin to laminar bedding. Ostracods sparse -----	1.3	549.5
No record -----	.5	550.0
Clay, sandy, with a few pebbles or concretions. Grayish-olive and dark-greenish-gray. Massive -----	5.3	555.3
Clay, silty. Pale-olive and yellowish-gray. Laminar bedding; locally massive -----	3.1	558.4
No record -----	1.6	560.0
Clay, slightly sandy at base. Grayish-olive to dark-greenish-gray. Massive -----	1.6	561.6
Sand, very fine to fine, grading downward to medium; locally clayey. Yellowish-gray to pale-olive. Faint thin bedding -----	5.6	567.2
No record -----	2.8	570.0
Clay, local small pockets of medium to very coarse sand. Grayish-olive and dark-greenish-gray. Massive -----	8.5	578.5
Sand, fine. Yellowish-gray. Thin to laminar bedding -----	.8	579.3
No record -----	.7	580.0
Sandy clay grading down to very fine clayey sand. Grayish-olive to light-olive-gray and dark-greenish-gray. Massive -----	2.2	582.2
Clay, minor silt; very fine sand in upper 6 inches. Yellowish-greenish-gray and grayish-olive to pale-greenish-yellow; lighter layers are silt, darker layers are clay. Bedding generally varve-like; locally massive. Ostracods(?) noted -----	7.8	590.0

		Thickness (feet)	Depth (feet)
Clay and silt. Light-olive-gray to pale-olive. Bedding generally varve-like; locally massive -----	1.4	591.4	
Clay, slightly silty. Yellowish-gray. Faint thin bedding	1.4	592.8	
Clay. Yellowish-gray and light-greenish-gray. Faint thin bedding in upper part grading down to varve-like bedding in lower part -----	3.0	595.8	
No record -----	4.2	600.0	
Clay with very thin beds of silt. Light-olive-gray to greenish-gray. Thin to varve-like bedding like that in lower part of unit between 592.8 and 595.8 ft -----	4.9	604.9	
Clay with numerous small pebbles. Dark-greenish-gray. Massive -----	1.7	606.6	
Silt and clay, interbedded. Pale-olive-gray. Thin bedding	.5	607.1	
No record -----	2.9	610.0	
Silt, with interbedded clay. Pale-olive. Laminar bedding. Grades into unit below -----	2.8	612.8	
Clay with interbedded silt. Yellowish-gray to pale-olive. Laminar bedding -----	4.8	617.6	
Sand, fine, clayey; contains numerous concretions (or rounded fragments.) of a fine-grained white calcareous substance. Yellowish-gray to pale-greenish-yellow. Thin bedding; concretions are concentrated in beds. Upper 2 inches is mostly clay -----	.8	618.4	
No record -----	1.6	620.0	
Clay, slightly sandy. Pale-olive-gray and greenish-gray. Massive -----	4.3	624.3	
Sand, medium to coarse. Yellowish-gray. Faint thin bedding in upper part -----	1.2	625.5	
Clay, slightly silty. Yellowish-gray to pale-olive. Laminar bedding with partings of silt -----	3.3	628.8	
No record -----	1.2	630.0	
Clay, locally silty. Pale-olive. Laminar bedding; generally fissile. Ostracods locally common -----	3.6	633.6	
Clay. Yellowish-gray to pale-greenish-yellow. Thin to laminar bedding; chunky fracture. Ostracods locally common -----	4.4	638.0	
Clay with numerous thin white beds of calcite. Pale-olive. Thin bedding. Ostracods locally common -----	.7	638.7	
Silt, clayey. Pale-olive-gray. Massive -----	.7	639.4	
No record -----	.6	640.0	
Clay, sandy. Pale-olive to yellowish-gray. Massive -----	2.2	642.2	
Clay, slightly silty. Pale-olive-gray to pale-olive to light-greenish-gray. Thin bedding; fissile except in upper foot. Grades into unit below -----	6.1	648.3	
Silt, clayey. Pale-olive-gray. Faint thin bedding. Contains small pockets of fine-grained light-yellowish-gray calcite, generally concentrated along bedding planes	1.5	649.8	

## 25S/40E-25Pl.--Continued.

	Thickness (feet)	Depth (feet)
No record -----	.2	650.0
Clay, slightly sandy. Grayish-olive. Massive -----	3.0	653.0
Clay, locally silty. Yellowish-gray to pale-olive. Thin to laminar bedding; locally fissile. Ostracods common in upper part -----	4.8	657.8
No record -----	2.2	660.0
Clay. Grayish-olive to dark-greenish-gray. Massive. Poorly consolidated -----	4.3	664.3
Clay. Light-olive-gray to pale-olive. Thin to laminar bedding with silty partings; varve-like in upper 3 inches -----	2.0	666.3
No record -----	3.7	670.0
Clay. Yellowish-gray to pale-olive. Laminar bedding with silty partings -----	3.3	673.3
Sand, medium, clayey. Yellowish-gray. Very faint thin bedding -----	1.6	674.9
No record -----	5.1	680.0
Clay. Light-olive-gray. Massive -----	.4	680.4
Clay, slightly silty. Pale-olive to yellowish-gray. Laminar bedding; generally fissile. At 686.1 ft is a 1-mm. bed of very light-gray glass, with a refractive index of about 1.49 -----	5.8	686.2
Clay, silty. Pale-olive to yellowish-gray. Laminar bedding. Ostracods(?) noted -----	.6	686.8
No record -----	3.2	690.0
Clay, silty. Light-olive-gray to pale-olive. Laminar bedding. Contains numerous laminæe of yellowish-gray calcite -----	1.0	691.0
Clay, silty. Yellowish-gray to pale-olive. Thin to laminar bedding; fine chunky fracture. Grades into unit below -----	1.7	692.7
Sand, medium, clayey. Pale-olive. Very faint thin bedding -----	1.3	694.0
No record -----	6.0	700.0

25S/40E-27El. Test well logged by Ground Water Branch. Slotted pipe from 9.2 to 18.7 ft, gravel packed. Altitude 2,168.7 ft.

Sand, coarse -----	2.0	2.0
silt, sandy -----	16.7	18.7

25S/40E-33L1. Test well drilled by Evans Bros., logged by Ground Water Branch. Perforated 70-90, 110-130 ft. Altitude 2,171.1 ft.

	Thickness (feet)	Depth (feet)
Sand, fine to coarse, subangular to subrounded, loose, and very fine gravel -----	2	2
Sand, uniform, medium, with water -----	7	9
Sand, medium to coarse, and very fine gravel -----	1	10
Sand, medium to coarse, with silty clay -----	4	14
Sand, medium to coarse, angular, tight, and very fine gravel -----	2	16
Sand, medium to coarse, angular to subrounded; subrounded very fine to fine gravel and silty clay -----	7	23
Clay and fine gravel -----	1	24
Clay, silty, and sand -----	10	34
Sand, medium to coarse, very fine gravel, and silty clay -----	5	39
Clay, silty, coarse sand and very fine gravel -----	1	40
Sand, coarse, very fine gravel, and gray-green silty clay -----	3	43
Clay with subangular gravel -----	2	45
Sand, medium to coarse, subangular, with clay -----	1	46
Clay, sandy, green, with sand -----	4	50
Sand, medium to coarse, with clay -----	5	55
Clay with fine to medium sand -----	1	56
Sand, medium, with clay -----	1	57
Clay and sand -----	2	59
Clay, finely sandy, gray-green with coarse sand stringers -----	11	70
Sand, fine to coarse -----	3	73
Sand, fine, argillaceous -----	3	76
Sand, coarse, subangular, and very fine gravel -----	9	85
Gravel, very fine, argillaceous -----	4	89
Clay black and green, with sand and gravel -----	9	98
Clay, black, plastic -----	2	100
Clay, green and black with sand and gravel -----	28	128
Clay, black, sticky -----	7	135
Clay, gray-black, sticky, plastic, with sand -----	10	145
Clay, black, very tight, sticky -----	4	149
Clay, slightly sandy -----	21	170
Clay, black, plastic -----	1	171

25S/40E-33L2. Test well drilled by Evans Bros., logged by Ground Water Branch. Perforated 2-22 ft. Altitude 2,171.0 ft.

Sand, subangular to subrounded, poorly sorted, fine to coarse, loose, and a little very fine gravel -----	2	2
Sand, medium, uniform, loose -----	7	9
Sand, medium to coarse, angular -----	1	10
Sand, medium to coarse, with a little clay -----	4	14
Sand, medium to coarse, and very fine gravel -----	2	16
Sand, coarse, subangular to subrounded and very fine gravel, with some clay -----	3	19
Sand, medium to coarse, angular, with a little silty clay and subrounded fine gravel -----	1	20
Sand, medium to coarse, with increase in silty clay -----	2	22

25S/40E-35Pl. Test well logged by Ground Water Branch. Slotted pipe from 8.3 to 17.6 ft, gravel packed. Altitude 2,158.8 ft.

	Thickness (feet)	Depth (feet)
Soil, sandy, dry -----	3	3
Sand, moist, dark-green, medium to coarse, slightly silty -----	12	15
Clay, silty, blue -----	3	18

25S/41E-19L1. Test well logged by Ground Water Branch. Screen from 21.9 to 23.9 ft, gravel packed. Altitude 2,157.8 ft.

Silt, black -----	23.5	23.5
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25S/41E-28Bl. Test well drilled by Evans Bros., logged by Ground Water Branch. Perforated 127-161.8 ft. Altitude 2,233.6 ft.

Sand, windblown -----	6	6
Sand, gravel and white silty clay -----	4	10
Sand, coarse, and fine gravel -----	4	14
Sand and gravel -----	9	23
Sand -----	11	34
Sand with plastic clay -----	2	36
Gravel -----	1	37
Gravel with clay -----	1	38
Boulder -----	1	39
Sand, coarse -----	27	66
Sand, reddish, stained by oxidation -----	3	69
Boulder -----	1	70
Sand -----	3	73
Sand and gravel -----	3	76
Sand and white clay -----	3	79
Sand; some grains oxidized -----	9	88
Sand with blue clay and white silt -----	7	95
Boulder -----	1	96
Silt, white, and sand -----	4	100
Silt, white; sand and gravel -----	5	105
Silt, white; sand; gravel and blue clay -----	10	115
Silt, white, sandy, soft and coarse sand -----	14	129
Silt, white, sandy, soft, gradually becoming gray, with increase in coarse sand -----	10	139
Sand, coarse, and pea gravel -----	3	142
Sand, medium to coarse, and gray to gray-blue clay -----	13	155
Transition zone -----	4	159
Bedrock -----	3	162

25S/41E-28N1. Test well logged by Ground Water Branch. Slotted pipe from 16.7 to 22.7 ft, gravel packed. Altitude 2,173.6 ft.

Silt and clay -----	16.7	16.7
Clay, gray, plastic -----	6.0	22.7

## 26S/39E-1E1. Log from Thompson (1929). Altitude 2,249.0 ft.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
No record -----	110	110	Clay, blue at 110 ft --	140	250(?)

## 26S/39E-4H1. Log from Lee (1913). Altitude 2,276.1 ft.

Soil and sand, dry --	80	80	Clay -----	21	183
Gravel, water-bearing	5	85	Sand, cemented -----	5	188
Clay -----	10	95	Clay -----	26	214
Gravel, water-bearing	10	105	Gravel, water-bearing	36	250
Clay -----	10	115	Sand, fine, water- bearing -----	15	265
Gravel, water-bearing	2 <sup>1</sup> / <sub>2</sub>	139	Gravel, water-bearing	27	292
Clay -----	6	145	Sand, cemented -----	3	295
Gravel, water-bearing	7	152			
Clay -----	5	157			
Gravel, water-bearing	5	162			

## 26S/39E-5F1. Drilled and logged by Evans Bros. Altitude 2,276.7 ft.

Caliche -----	15	15	Sand -----	120	190
Sand -----	50	65	Sand, fine -----	10	200
Clay -----	5	70			

## 26S/39E-11E1. Drilled and logged by Evans Bros. Altitude 2,305.0 ft.

Sand -----	10 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>	Gravel -----	35	205
Sand and gravel -----	48	152	Sand, tight -----	8	213
"Quicksand" -----	6	158	Clay, blue -----	37	250
Sand and clay -----	12	170			

## 26S/39E-11E2. Log from Thompson (1929). Altitude 2,305 ft.

Well penetrated 56 ft of gravel at unspecified depth

## 26S/39E-11H1. Log from Thompson (1929). Altitude about 2,285 ft.

No record -----	95	95	Clay, blue, at 95 ft --	130	225(?)
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## 26S/39E-12G1. Log from Thompson (1929). Altitude 2,277.0 ft.

No record -----	110	110	Clay, blue, at about 110 ft -----	90	200(?)
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263/39E-19K1. Drilled by Evans Bros., logged by Ground Water Branch.  
Perforated 255-540, 590-625, and 700-790 ft. Altitude 2,406.2 ft

	Thickness (feet)	Depth (feet)
Sand, coarse; and gravel, fine (to 1/4-inch diameter) -----	130	130
Sand, coarse, with small amount of clay, brown (less than 5 percent) -----	30	160
Clay, brown, with large amount of phlogopite -----	10	170
Same as above, with about 50 percent sand, coarse -----	10	180
Sand, fine to coarse -----	60	240
Silt sand, very fine, and clay, brown, some phlogopite -----	20	260
Sand, coarse -----	50	310
Sand, very fine; brown clay -----	10	320
Sand, coarse -----	25	345
Sand, coarse; small amount of clay, ranging between 10 and 25 percent -----	125	470
Sand, fine to coarse, and brown clay -----	10	480
Sand, coarse -----	20	500
Sand, coarse; small amount of brown clay -----	10	510
Sand, coarse; brown clay; 50 percent each -----	10	520
Sand, coarse; dark-brown clay -----	10	530
Clay, gray; sand, coarse, about 10 percent -----	10	540
Clay, gray; sand to 10 percent -----	70	610
Sand, coarse; gray clay; about 50 percent each -----	30	640
Sand, fine; gray clay -----	40	680
Sand, fine to medium; gray clay -----	20	700
Sand, medium to coarse; gray clay -----	90	790
Sand, coarse; gray clay, with broken clay fragments, green, dry, and hard -----	13	803

263/39E-19P1. Drilled and logged by Barber and Bridge Drilling Corp.  
Casing perforated 240-350, 360-390, and 405-420 ft. Altitude 2,416.0 ft.

Sand, coarse -----	51	51
Clay, yellow -----	12	63
Sand, coarse -----	80	143
Clay, hard -----	4	147
Sand and gravel, packed -----	18	165
Gravel, loose -----	18	183
Gravel, cemented -----	24	207
Sand -----	16	223
Sand and gravel, 1/4-inch, water -----	128	351
Gravel, cemented -----	18	369
Sand and gravel, 1/4-inch -----	3	372
Gravel, cemented -----	26	398
Clay, yellow -----	3	401
Gravel, tight, dirty, 3/8-inch -----	12	413
Clay, yellow -----	1	414
Gravel, tight, 3/8-inch -----	7	421
Clay, yellow -----	16	437
Gravel, 3/8-inch -----	4	441
Clay, yellow -----	5	446

26S/39E-19Q1. Drilled and logged by Barber and Bridge Drilling Corp.  
Perforated 251-371 ft. Altitude 2,418.3 ft.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Sand, dry -----	74	74	Sand, dry -----	10	212
Sand, cemented -----	53	127	Gravel, cemented;		
Sand, dry -----	69	196	and rock, water ---	159	371
Sand, cemented -----	6	202			

26S/39E-23J1. Drilled by Evans Bros., logged by Ground Water Branch.  
Perforated 210-380, 470-660 ft. Altitude 2,361.2 ft.

Sand, fine to very coarse -----	20	20
Sand, coarse -----	10	30
Clay; sand, fine to coarse (50 percent clay; 50 percent sand)	10	40
Clay; sand, fine to coarse -----	10	50
Sand, fine to coarse; clay -----	10	60
Clay; fine to coarse sand (clay increasing) -----	10	70
Clay; sand, fine to coarse -----	10	80
Sand, coarse to very coarse -----	10	90
Clay; sand, coarse to very coarse -----	10	100
Gravel, very fine to fine -----	10	110
Sand, very coarse; gravel, very fine; clay, small amount -----	10	120
Sand, coarse; gravel, fine (to 1/4-inch diameter) -----	10	130
Sand, coarse to very coarse -----	10	140
Clay; sand, fine to very coarse -----	10	150
Sand, very coarse; clay (small amount)-----	10	160
Sand, fine to coarse -----	10	170
Sand, medium to coarse -----	10	180
Sand, coarse; gravel, very fine (to 1/8-inch diameter) -----	10	190
Sand, medium to very coarse -----	10	200
Sand, fine to coarse; clay -----	10	210
Sand, fine to coarse; clay; some phlogopite -----	10	220
Sand, very coarse; gravel, fine (to 1/8-inch diameter); clay; some phlogopite -----	10	230
Clay; gravel, fine -----	20	250
Sand, very coarse; gravel, very fine -----	20	270
Sand, coarse to very coarse -----	10	280
Sand, coarse; gravel, fine; clay, small amount -----	10	290
Sand, coarse to very coarse -----	10	300
Sand, very coarse; gravel, fine (1- to 1/8-inch diameter) ---	10	310
Sand, coarse; gravel, fine, to 1/4-inch diameter -----	10	320
Sand, coarse; gravel, very fine -----	10	330
Sand, coarse; clay (small amount) -----	10	340
Sand, coarse to very coarse; clay (small amount) -----	10	350
Sand, fine to coarse; clay (increasing) -----	10	360
Clay, gray; sand, fine to medium -----	10	370
Sand, fine to coarse; clay -----	10	380
Clay, blue; sand, fine to coarse -----	30	410
Clay, blue; sand (small amount); some phlogopite -----	10	420

## 26S/39E-25J1.--Continued.

	Thickness (feet)	Depth (feet)
Clay, blue; sand, fine to medium -----	10	430
Sand, very coarse -----	10	440
Sand, coarse to very coarse; clay (small amount) -----	10	450
Clay; sand, fine to medium -----	10	460
Clay; some 1/4-inch pebbles -----	10	470
Clay; sand (increasing) -----	10	480
Sand, very coarse; clay (50 percent sand; 50 percent clay) ---	10	490
Clay; sand, very coarse (60 percent clay; 40 percent sand) ---	10	500
Clay; sand, very coarse (60 percent clay; 40 percent sand) ---	10	510
Sand, very coarse; clay -----	10	520
Sand, very coarse; gravel, fine -----	10	530
Sand, very coarse; gravel, fine; clay -----	10	540
Clay; sand, very coarse (small amount) -----	10	550
Clay; sand, medium to coarse -----	10	560
Sand, medium to coarse; clay (small amount) -----	20	580
Clay; sand, very coarse; gravel, fine (50 percent clay; 25 percent sand; 25 percent gravel) -----	10	590
Clay; sand, fine to very coarse (70 percent clay; 30 percent sand) -----	10	600
Sand, very coarse -----	30	630
Sand, very coarse; clay, small amount -----	10	640
Clay; sand, fine to coarse -----	20	660
Clay, blue; sand, small amount -----	30	690
Clay, blue -----	60	750
Clay, blue; sand, coarse (sand increasing) -----	40	790
Clay, blue; sand, very coarse -----	10	800

Sand and gravel consist primarily of quartz and feldspars. Particles subrounded to angular.

26S/39E-24K1. Drilled and logged by Barber and Bridge Drilling Corp.  
Perforated 190-197, 230-273, 287-301 ft. Altitude 2,347.4 ft.

Sand and gravel -----	46	46
Clay, yellow -----	52	98
Sand and gravel -----	6	104
Sand, coarse -----	3	107
Sand, fine -----	34	141
Clay, yellow -----	38	179
Gravel, dirty, tight, water -----	13	192
Clay, gravelly -----	35	227
Gravel, dirty streaks, and "conglomerate" -----	39	266
Gravel, 3/4-inch (water level rose from 165 to 153 ft) -----	12	278
Clay, yellow -----	9	287
Gravel, 3/4-inch, tight -----	14	301
Clay, blue, with "broken-up shale" -----	8	309
Clay, sandy, blue -----	27	336
"Shale," sandy, blue -----	19	355

263/39E-24M1. Drilled by Evans Bros., logged by Ground Water Branch.  
Perforated 220-405, 450-620, 730-800 ft. Altitude 2,366.5 ft. Pilot hole  
drilled to 1,953 ft. Reamed and cased to 800 ft.

	Thickness (feet)	Depth (feet)
Sand, very coarse, composed of weathered granite, quartz, and feldspar -----	25	25
Sand, very coarse; gravel to 1/2 inch; and clay, brown (very small amount) -----	15	40
Sand, very coarse to fine; gravel to 1/4 inch; and clay, brown (very small amount) -----	70	110
Sand, very coarse, and gravel to 1/4 inch, composed of quartz, 90 percent and feldspar -----	15	125
Sand, very coarse; and clay, brown, in lenses ranging from 0-10 percent -----	38	163
Same as above with 1 percent tuff -----	2	165
Same as above without tuff -----	40	205
Sand, very coarse, green -----	5	210
Clay, green, and gravel, 5 percent, fine to 1/4-inch diameter -----	8	218
Sand, very coarse, composed of green and white quartz, 50 percent, purple quartzite, 10 percent, black mesquite schist, epidote, feldspar, obsidian chips and small amount of green clay. 50 percent dark minerals -----	12	230
Sand, very coarse, predominantly quartz -----	20	250
Sand, very coarse, 50 percent dark minerals, composed of quartz, black mesquite schist, purple quartzite, epidote, volcanics, and feldspar -----	68	318
Same as above with 5 percent clay -----	2	320
Same as above, no clay -----	8	328
Same as above, 10 percent clay, gray -----	6	334
Same as above, 20 percent tuffaceous clay, white -----	4	338
Same as above, 50 percent tuffaceous clay, white -----	8	346
Same as above, 15 percent tuffaceous clay and quartzite, green -----	4	350
Sand, very coarse, composed mainly of green quartz with black mesquite schist, tuff, volcanics, red quartz. Black schist increasing and tuff decreasing with depth, some clay at depth, less than 5 percent -----	17	367
Same as above with 10 percent clay -----	10	377
Sand, very coarse, and clay, blue-gray, 50 percent of each	12	389
Sand, very coarse, 95 percent; and clay, blue-gray, 5 percent -----	3	392
Sand, very coarse; and tan clay, 50 percent of each with trace of altered tuff increasing with depth -----	6	398
Sand, very coarse, and 5 percent clay, tan -----	7	405
Sand, coarse, 40 percent; and clay, brown, 60 percent, sand is mostly quartz -----	12	417
Sand, coarse, 10 percent; and clay, brown, 90 percent -----	23	440
Sand, coarse, 30 percent; and clay, blue, 70 percent -----	10	450

	Thickness (feet)	Depth (feet)
Sand, coarse, 80 percent; and clay, brown, 20 percent -----	12	462
Sand, coarse, 50 percent; and clay, 50 percent, grading from blue to brown with depth. Sand composed of quartz, black schist, and feldspar -----	38	500
Sand, coarse, 75 percent; and clay, brown with varying amounts of tuff -----	80	580
Gravel to 1/4 inch; and clay, brown, less than 5 percent ---	20	600
Sand, very coarse; and clay, brown, 15 to 50 percent, increasing with depth -----	30	630
Sand, coarse, 10 percent; and clay, blue, 90 percent -----	60	690
Sand, coarse, 5 percent; clay, blue; and silt -----	30	720
Sand, coarse, 50 percent; and clay, brown, with small amount of clay, blue -----	10	730
Sand, coarse, 80 percent; and clay, brown, with small amount of clay, blue, and varying amounts of clay, white -----	70	800
Sand, coarse, 90 percent; and clay, blue, 10 percent -----	50	850
Sand, coarse, 99 percent; and clay, blue, 1 percent -----	105	955
Sand, coarse, 95 percent; and clay, green and tan, 5 percent -----	20	975
Sand, coarse; gravel to 1/4 inch; and clay, tan, from 0 to 10 percent -----	80	1,055
Sand; gravel to 1/4 inch; and clay, tan and buff, in varying amounts to 25 percent -----	35	1,090
Sand, coarse; and clay, tan, up to 40 percent -----	15	1,105
Sand, coarse; and clay, tan, in varying amounts from 20 to 50 percent -----	115	1,220
Sand, very coarse; and clay, brown, in varying amounts from 30 to 30 percent with depth and a small amount of blue clay -----	20	1,240
Sand, very coarse; and clay, brown, 10 percent -----	60	1,300
Sand, very coarse; and clay, brown, 2 to 3 percent and decreasing with depth -----	40	1,340
Same as above, with clay, blue, 5 percent -----	40	1,380
Same as above, with small amount of mudstone, gray -----	50	1,430
Sand, very coarse, 90 percent; and clay, blue, 10 percent --	20	1,450
Sand, very coarse -----	70	1,520
Sand, very coarse, 50 percent; and clay, brown, 50 percent	20	1,540
Sand, very coarse, 90 percent; and clay, brown, 10 percent	50	1,590
Sand, very coarse, 50 percent; and clay, brown, 50 percent	40	1,630
Sand, very coarse, 5 percent; and clay, brown, 95 percent	50	1,680
Sand, very coarse, 50 percent; and clay, brown, 50 percent	20	1,700
Sand, very coarse, and clay, brown, in streaks between 0 and 20 percent -----	180	1,880
Sand, very coarse; and clay, brown, ranging 50 to 70 percent with depth -----	20	1,900
Sand, very coarse, 20 percent; clay, brown; very soluble, 70 percent; and clay, blue, 10 percent, in chips to 2 inches, very well stratified -----	53	1,953

	Thickness (feet)	Depth (feet)
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Sand grains are composed of clear, white, red, and yellow quartz, purple quartzite, green quartzite, epidote, feldspar, biotite, red and black volcanics, black mesquite schist and obsidian.

#### Bead test to determine lag time

	Time	Depth	Time	Depth	Time	Depth
Start	9:23 a.m.	782	8:43 a.m.	1,754	5:43 p.m.	1,932
First bead			9:24	1,776		
Median amount	9:54	790	9:30	1,780	6:32	1,953
Last bead			9:50	1,789	7:30	1,953

26S/39E-24PL. Drilled by Rottman Drilling Co., logged by Ground Water Branch. Perforated 250-350, 490-580, and 640-780 ft. Altitude about 2,355 ft.

Gravel and sand, variegated, mostly granite particles ranging in size from fine sand to pebbles 3/4 inch

in diameter -----	120	120
Sand, coarse, fairly well-sorted and rounded; also fine gravel -----	10	130
Sand, as above; some finer sand and some pebbles 1/2 inch in diameter -----	20	150
Sand, medium coarse, fair rounding -----	10	160
Sand, fine to coarse, poorly sorted; some pebbles 3/4 inch in diameter -----	30	190
Sand, as above; gravel, some rounded pebbles, granitic and volcanic, up to 1 inch in diameter -----	50	240
Sand, as above -----	30	270
Sand, coarse; fine gravel -----	10	280
Sand and gravel, as above; some clay, brown -----	20	300
Sand, yellowish-brown, feldspars, quartz, medium coarse, subangular to subrounded; clay, yellowish-brown -----	30	330
Sand, "salt and pepper" appearance, medium coarse, subangular to subrounded, fair sorting -----	30	360
Sand, medium coarse; clay -----	10	370
Sand, as above; some decrease in clay -----	20	390
Clay, gray; sand, medium coarse, subangular to subrounded, fair sorting -----	60	450
Sand, feldspars, quartz, volcanics, medium coarse, subangular to subrounded, fair sorting; some clay, whitish-green -----	10	460
Sand and clay as above, some increase in clay -----	10	470
Clay, greenish; some clay, brown; some sand, medium coarse	20	490
Sand, "salt and pepper" appearance, medium coarse, subangular to subrounded, fair sorting; some clay -----	10	500

## 265/39E-24Pl.--Continued.

	Thickness (feet)	Depth (feet)
Sand as above; decrease in clay -----	60	560
Sand as above; some mudstone, gray, partly indurated; abundant clay -----	30	590
Clay as above; some sand -----	20	610
Clay, blue-gray -----	20	630
Sand, "salt and pepper" appearance, medium coarse, Subangular to subrounded, fair sorting; some clay -----	20	650
Sand as above; some clay, gray -----	20	670
Sand, medium coarse, subangular; some mudstone and clay -----	20	690
Clay, blue-green -----	10	700
Clay as above; sand, medium coarse, subangular to subrounded, fair sorting -----	20	720
Sand and clay, as above; increase in sand -----	10	730
Sand, as above; trace of clay -----	30	760
Sand, as above; some mudstone -----	10	770
Sand, as above, somewhat finer; some mudstone -----	55	825

265/39E-24Q1. Drilled and logged by Barber and Bridge Drilling Corp.  
Perforated 180-200, 230-285, and 325-345 ft. Altitude 2,350.4 ft.

Sand and gravel -----	12	12
Clay and boulders -----	21	33
Gravel, cemented -----	31	64
Clay, gravelly -----	39	103
Sand, fine -----	16	119
Gravel, cemented -----	4	123
Sand, fine -----	30	153
Sand, clay and gravel -----	54	207
Clay, yellow -----	17	224
Clay, gravelly, yellow (water at 227 ft) -----	69	293
Clay, sandy, yellow -----	30	323
Sand and gravel, tight -----	11	334
Clay, sandy, yellow -----	29	363
Clay, sandy, blue -----	7	370

26C/39E-24R1. Drilled and logged by Barber and Bridge Drilling Corp.  
Perforated 160-281 and 412-460 ft. Altitude 2,344.9 ft.

Gravel -----	80	80
Sand and gravel, dry -----	96	176
Clay and gravel (water at 220 ft) -----	105	281
Clay, blue -----	41	322
Sand, clay and gravel -----	64	386
"Decomposed granite" -----	26	412
"Rock" -----	17	429
Sand, cemented -----	16	445
Clay and gravel -----	21	463
Sand, cemented -----	14	480

26S/39E-25D2. Drilled and logged by J. W. Burkhart. Altitude 2,368.0 ft.

	Thickness (feet)	Depth (feet)
Topsoil -----	4	4
Sand and gravel -----	14	18
Clay, brown, gravelly, "semiclay" -----	83	101
Sand -----	2	103
Clay -----	9	112
Sand, muddy -----	36	148
Sand, silty, very fine -----	12	160
Sand, cemented in layers, with alternating layers of loose sand, water-bearing -----	22	182
Gravel, good -----	13	195
Sand, "cement," very compact, in hard layers -----	21	216
Clay, gravelly -----	3	219
Clay, sandy -----	81	300

26S/39E-25E1. Drilled and logged by Stranske and Evans. Altitude  
2,372.2 ft.

Topsoil -----	2	2
Sand and gravel, loose -----	7	9
Sand and gravel, cemented -----	6	15
Sand and gravel, loose -----	6	21
Sand, fine -----	10	31
Gravel, sandy -----	60	91
Silt, sandy -----	5	96
Sand and gravel -----	16	112
Clay, sandy -----	5	117
Sand and gravel -----	18	135
Sand, fine -----	12	147
Silt, sandy -----	18	165
Sand and gravel, cemented, water-bearing -----	14	179
Sand and gravel -----	7	186
Sand and gravel, hard, cemented -----	3	189
Sand and gravel, with "rock" to 3 inches -----	51	240
Sand and gravel, with some clay "balls" -----	6	246
Sand and gravel -----	17	263
Sand, fine, and some gravel -----	5	268
Sand, gravel, and "rock" to 4 inches -----	16	284
Clay, sandy -----	7	291
Sand, muddy -----	8	299
Sand and gravel -----	14	313
Clay, sandy -----	4	317
Sand and gravel -----	14	331
Sand and gravel, hard, cemented -----	15	346
Sand and coarse gravel -----	11	357
Gravel, sandy -----	11	368
Sand and gravel -----	16	384
Clay, sandy, with gravel -----	3	387

26S/39E-30C1. Drilled and logged by Barber and Bridge Drilling Corp.  
Perforated 238-282 and 286-338 ft. Altitude 2,427.1 ft.

	Thickness (feet)	Depth (feet)
Sand, dry -----	133	138
Gravel, yellow -----	47	185
Sand fine (water at 212 ft) -----	53	238
Sand, cemented -----	48	286
Gravel, fine, 1/2-inch -----	65	351
"Cemented formation" -----	19	370

26S/39E-30F1. Drilled and logged by Barber and Bridge Drilling Corp.  
Perforated 250-321 and 369-386 ft. Altitude 2,433.5 ft.

Sand and gravel -----	4	4
Clay -----	4	8
Sand and gravel -----	25	33
Gravel, cemented -----	14	47
Sand and gravel -----	12	59
Sand and gravel streaks -----	18	77
Clay and gravel, hard streaks -----	46	123
Sand and gravel -----	76	199
Gravel, cemented (water at 263 ft) -----	72	271
Sand and streaks of cemented gravel -----	56	327
Clay, yellow, with gravel -----	22	349
Clay, yellow -----	20	369
Gravel, cemented (water level rose from 254 to 220 ft) -----	17	386
Clay, yellow -----	45	431
Clay, yellow, with streaks of gravelly clay -----	151	582
Gravel, tight, dirty, 1/8-inch -----	8	590
Clay, gravelly, yellow -----	13	603
Gravel, tight, dirty, 3/8-inch -----	4	607
Clay, yellow -----	15	622

26S/39E-30J1. Drilled and logged by Barber and Bridge Drilling Corp.  
 Perforated 294-298, 306-325, 330-343, 360-370, and 393-413 ft. Altitude  
 2,441.1 ft.

	Thickness (feet)	Depth (feet)
Topsoil -----	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Clay -----	4 $\frac{1}{2}$	6
Sand and gravel, dry -----	53	59
Clay, yellow -----	4	63
Sand and gravel, dry -----	26	89
Clay, yellow -----	1 $\frac{1}{4}$	103
Gravel, cemented, with streaks of loose gravel -----	78	181
Sand and gravel with streaks of yellow clay -----	15	196
Gravel, cemented, with streaks of tight gravel -----	75	271
Clay, yellow, with streaks of cemented sand (water at 272 ft) -----	21	292
Gravel, 1/2-inch -----	4	296
"Gravelly muck" -----	6	302
Gravel, tight, in streaks -----	23	325
Clay, yellow -----	3	328
Gravel, cemented, and streaks of tight gravel -----	15	343
Clay, yellow -----	7	350
Gravel, tight -----	3	353
Clay, yellow -----	4	357
Sand and gravel, dirty, 3/8-inch -----	12	369
Clay, yellow -----	5	374
Sand, dirty -----	15	389
Sand and gravel, 1/2-inch -----	18	407
Sand and gravel, dirty, with streaks of cemented gravel -----	14	421
Clay, yellow -----	9	430

26S/40E-1A2. Test well drilled by Evans Bros., logged by Ground Water Branch. Perforated 80-100, 110-130, and 170-190 ft. Altitude 2,157.6 ft.

Clay, pale-green, plastic; and gray clay -----	30	30
Clay, black, carbonaceous, with about 10 percent medium sand	10	40
Clay, dark-gray to black, plastic, with olive-green very fine silt and some waxy clay. Gastropod shells and H <sub>2</sub> S odor -----	9	49
Sand, moderately well-consolidated, calcareous, fairly hard	1	50
Clay, black, plastic, with small amount of subrounded, moderately well-consolidated medium to coarse, calcareous sand -----	20	70
Clay, gray, plastic, and black, pyritic sandy, carbonaceous clay with numerous chips of calcareous material and some partly carbonized wood. Strong H <sub>2</sub> S odor -----	10	80
Sand, fine to medium, argillaceous, with some calcareous material -----	10	90
Sand, fine, moderately well-cemented; and a little rounded coarse sand -----	1	91

26S/40E-1A2.--Continued.

	Thickness (feet)	Depth (feet)
Sand, gray, silty, with some clay and streaks of moderately well-cemented fine to medium calcareous sand. Gastropods -----	9	100
Silt, argillaceous, finely sandy; black when wet, dark-green when dry; with calcareous chips. Strong H <sub>2</sub> S odor -----	10	110
Sand, gray, subangular to subrounded, silty, fine to medium, plus a little white calcareous sand, moderately well-cemented -----	10	120
Sand, fine to medium, gray-white, subrounded, slightly calcareous, fairly hard, silty -----	9	129
Clay, sandy, gray and black clay -----	11	140
Clay, sandy with chips of lime -----	.4	144
Limy bed -----	2	146
Clay, black -----	14	160
Clay, silty, gray, plastic -----	10	170
Sand, very coarse, or very fine gravel -----	20	190
Clay, with some sand -----	7.5	197.5

26S/40E-1A3. Test well drilled by Evans Bros., logged by Ground Water Branch. Perforated 13.9-18.5 ft. Altitude 2,157.6 ft.

Silt, cemented -----	1.0	1.0
Sand, fine, yellow -----	3.5	4.5
Sand, clayey, yellow -----	.5	5.0
Silt, gray, with numerous shell fragments -----	1.0	6.0
Clay, gray, plastic -----	2.5	8.5
Clay, finely sandy, slightly micaceous, moist olive-green -----	.5	9.0
Clay, plastic, gray -----	3.0	12.0
Clay, plastic, gray-black -----	1.3	13.3
Clay, plastic, gray, soft and moist -----	.2	13.5
Sand, clayey, moist -----	.2	13.7
Clay, plastic, gray-blue -----	4.8	18.5

26S/40E-1J1. Test well logged by Ground Water Branch. Slotted pipe from 12.3 to 18.3 ft. Altitude 2,161.3 ft.

Sand -----	3	3
Clay, wet, sticky, green -----	9.5	12.5
Silt, argillaceous, sticky, blue -----	5.8	18.3

26S/40E-5P1. Drilled and logged by Barber and Bridge Drilling Corp. Perforated 40-98 ft. Altitude 2,206.1 ft.

Gravel, dry -----	39	39
Clay -----	44	83
Sand, fine, water -----	12	95
Clay, sandy -----	30	125

## 26S/4OE-6N1. Log from Thompson (1929). Altitude 2,249.8 ft.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well penetrated 48 ft of gravel					

## 26S/4OE-7E1. Log from Thompson (1929). Altitude 2,271.1 ft.

Clay -----	10	10	"Hole" -----	3	81
Sand -----	8	18	Sand -----	4	85
Clay -----	6	24	Clay and cemented gravel	10	95
Sand, fine -----	6	30	Clay, fine streaks of		
Sand, coarse -----	2	32	gravel -----	6	101
Sand, fine -----	4	36	Sand, blue, and "muck"	8	109
Sand with streaks			"muck" -----	4	113
of clay -----	6	42	Clay, blue, and		
Sand -----	20	62	cemented gravel -----	2	115
Sand and clay -----	2	64	Gravel, good -----	9	124
Sand, fine; "pocket			Clay, blue, and "slush"	26	150
near old well" ----	10	74	Clay, blue -----	10	160
Clay -----	4	78			

## 26S/4OE-8N1. Log from Thompson (1929). Altitude 2,262.8 ft.

Undescribed -----	136	136	Clay, blue and white --	74+	210+
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## 26S/4OE-10F1. Test well logged by Ground Water Branch. Slotted pipe from 37.0 to 43.3 ft. Altitude 2,168.8 ft.

Sand, poorly sorted with occasional 3-inch cobbles -----		3	3
Sand, very fine, silty, tan -----		40.3	43.3

## 26S/4OE-10N1. Log from Thompson (1929). Altitude 2,214.6 ft.

"Like surface soil" --	60	60	Sand, very coarse, and		
Sand -----	24	84	fine gravel -----	5	120
"Yellowish-white			Clay, blue -----	5	125
substance like chalk" 7	91	91	Clay, black -----	45	170
Clay, yellowish-blue -	9	100	Clay, blue -----	180	350
Gravel, coarse -----	6	106			
Clay, blue, with streaks					
of coarse sand -----	9	115			

26S/40E-11A1. Test well logged by Ground Water Branch. Cased from 0 to 2 feet. Altitude 2,160 ft.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Clay, sandy, blue ----	8.0	8.0			

26S/40E-11J1. Test well logged by Ground Water Branch. Screen from 16.3 to 18.3 ft. Altitude 2,174.0 ft.

Sand, medium, silty --	3	3	No record -----	5	17
Sand, fine, silty, blue	9	12	Muds, water-bearing ---	1.3	18.3

26S/40E-18E1. Log from Thompson (1929). Altitude 2,297.0 ft

Thin water-bearing layers (in clay?) ----	102	102	Gravel, water-bearing --	40	200
No record (clay?) -----	58	160	Clay -----	44	244

26S/40E-18E2. Log from Thompson (1929). Altitude 2,295 ft.

No record -----	92	92	Clay, blue -----	658	750
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26S/40E-19P1. Drilled and logged by Barber and Bridge Drilling Corp. Perforated 192-220 and 253-259 ft. Altitude 2,336.0 ft.

Sand and gravel -----	7	7
Clay and boulders -----	27	34
Sand and gravel -----	34	68
Sand -----	43	111
Clay, yellow -----	21	132
Gravel, cemented -----	15	147
Clay, gravelly, yellow (water at 147 ft) -----	44	191
Sand and gravel, 1-3/4 inches -----	11	202
"Gravelly muck" -----	21	223
Clay, yellow -----	29	252
Sand and gravel, 1-inch -----	7	259
Clay, blue -----	16	275

26S/40E-19Q1. Test well drilled by Evans Bros., logged by Ground Water Branch. Altitude about 2,330 ft.

	Thickness (feet)	Depth (feet)
Gravel, very fine, getting coarser with depth -----	20	20
Sand, coarse; and fine gravel to 1/4-inch diameter with small amount of red volcanics, getting larger with depth --	35	55
Gravel, very fine to fine (to 1/4-inch) and clay; about 10 percent brown clay at top and 90 percent at bottom.		
Clay contains large amount of phlogopite -----	20	75
Gravel, very fine to fine, largely quartz and granite, very small amount of red volcanics -----	5	80
Sand, coarse; gravel, very fine and fine (to 1/4-inch), subrounded, and less than 25 percent clay -----	47	127
Sand, coarse and gravel, fine (to 1/4-inch); and clay to 75 percent -----	5	132
Clay, gray (about 90 percent) and very fine gravel -----	8	140
Silt; sand, medium; and clay, blue-green -----	20	160
Sand, coarse; and gravel, fine (to 1/4-inch), with small amount of clay, gray -----	60	220
Gravel, very fine; and clay, brown, about 50 percent of each	10	230
Sand, coarse, and small amount of clay, brown -----	10	240
Sand, coarse, and brown clay, 50 percent of each -----	10	250
Clay, blue, interbedded with gravel, very fine, to 1/4-inch diameter -----	230	480
Sand, coarse; and gravel to 1/4-inch diameter; and small amount of clay, brown, increasing clay with depth to 30 percent -----	30	510
Clay, blue, with small amount of sand, coarse; and gravel to 1/4-inch diameter. Clay increasing to 100 percent with depth -----	138	648

26S/40E-20G1. Log from Thompson (1929). Altitude 2,287.6 ft.

Clay, blue, at 112 feet; and 120 feet in two unsuccessful test wells at this site.

26S/40E-22Pl. Test well drilled by B & B Drilling Co., logged by  
Ground Water Branch. Perforated 530-830 ft; concrete plug 850-875 ft.  
Altitude 2,258.7 ft.

	Thickness (feet)	Depth (feet)
Sand, yellow, windblown, and pebbles -----	2.5	2.5
Sand, fine to medium, angular, white, with pebbles to 3/4 inch -----	13	15.5
Sand, very fine, micaceous, with pumice (?) -----	17	32.5
Silt, sandy, fine, gray, soft, with shells -----	34	66.5
Clay, sandy, fine, gray-green, soft, plastic with gastropods -----	19	85.5
Clay, gray-green, very soft, with very little sand and no shells -----	16	101.5
Clay, soft, blue-green. No shells, no sand -----	31	132.5
Clay, soft, blue-green, with a little coarse sand and no shells -----	15	147.5
Silt, slightly sandy, very fine, and gray clay -----	15.5	163
Clay, soft, blue-green, with a few coarse sand grains -----	15.5	178.5
Clay, soft, plastic, blue-green with a very fine gravel -----	15.5	194
Calcareous material, hard -----	3	197
Clay, soft, plastic, gray-green, with rare very fine gravel	12.5	209.5
Clay, firm, gray-green, mottled, micaceous, gritty -----	14.5	224
Clay, gray-green, firm, with angular chips of gray tuff and some very fine gravel -----	30.5	254.5
Clay, silty, soft, gray-green and olive-green, with streaks of biotite-rich silty clay and a little very fine gravel -----	15	269.5
Clay, soft, gray-green and olive-green, with some rounded very fine gravel, very little biotite and some calcareous fragments -----	15	284.5
Clay, soft, gray-green and olive-green, with sand-size fragments of granite -----	48	332.5
Clay, gray-green, soft, with some coarse sand -----	12.5	345
Calcareous material, hard (limestone.) -----	8	353
Clay, gray-green, soft, with sand and some shell -----	8.5	361.5
Calcareous material -----	2	363.5
No record -----	43	406.5
Clay, sandy, blue-green, soft, with some sand, very fine gravel, calcareous fragments and shells -----	44	450.5
Clay, blue, with calcareous fragments and less sand -----	17	467.5
Clay, blue, with small pebbles and chips of lime -----	18	485.5
Clay, blue, with very coarse sand -----	40	525.5
Clay, blue soft, with hard lime and sand streaks -----	38	563.5
Calcareous material, hard -----	4	567.5
Clay, sandy -----	7	574.5
Lime(?); hard streak -----	2	576.5
Clay, sandy -----	18	594.5
Gravel(?), very fine, hard -----	22	616.5
Sand, coarse, with lime and shell fragments -----	4	620.5
Sand, with gastropods -----	15	635.5

	Thickness (feet)	Depth (feet)
Sand, medium-coarse, angular, with blue-green and gray-green, soft, crumbly clay and shell fragments -----	8	645.5
Sand, fine-coarse, angular -----	8	651.5
Sand, fine to medium, subrounded, with considerable biotite, some coarse sand, soft, blue, platy clay, and a few limy chips-----	15	666.5
Sand, coarse, angular, with some blue clay and a little fine sand -----	16	682.5
Sand, subrounded to subangular, very fine to fine, with rare biotite plus blue and gray nonplastic clay -----	16	698.5
Sand, greenish-gray, argillaceous, subrounded, medium to coarse, with much biotite -----	14.5	713
Sand, fine and silty; gray-green clay -----	16.5	729.5
Sand, fine, silty, micaceous, and clay -----	14.5	744
Sand, very fine, well-sorted, and silty, gray-green clay -----	62	806
Sand, fine; and gray-green clay with chips of hard green nonplastic clay -----	10.5	816.5
Sand, hard -----	5	821.5
Sand, silty, fine, with olive-green, nonplastic clay, plus rare coarse sand -----	45	866.5
Sand, silty, green with increase in clay -----	30	896.5
Sand and sandy clay in alternating beds -----	31	927.5
Clay, plastic, blue-green, soft, gritty -----	26	953.5
Sand, hard -----	1	954.5
Sand, medium, fairly uniform, subangular to subrounded, with some plastic blue clay, silt, and a little coarse angular sand -----	19	973.5
Sand, very fine, about 50 percent; with coarse, angular micaceous sand and a little plastic blue clay -----	15	988.5
Sand, coarse -----	31	1,019.5
Clay, gray-green, and coarse sand -----	15	1,034.5
Sand, fine to medium, arkosic, angular sand; blue and gray plastic clays and silts and a little coarse, angular arkosic sand in alternating hard and soft beds -----	15.5	1,050
Sand, coarse, angular, and blue-gray clay, with a little fine sand -----	28.5	1,078.5
Clay, blue; silt and very fine sand -----	3	1,081.5
Clay, sandy, blue-green; sand, hard streaks -----	47	1,128.5
Clay, sandy, blue-green, with sand -----	45.5	1,174
Clay, hard, blue-green to gray-green, with very little sand	16.5	1,190.5
Clay, soft, plastic, blue-gray; occasional bits of coarse angular sand, and very fine, micaceous sand -----	14.5	1,205
Sand, very fine, micaceous, uniform, with blue-gray plastic clay and a large amount of leaves, wood, and seed pods -----	15.5	1,220.5
Clay, soft, plastic, blue-gray, and leaves with some fine sand -----	15.5	1,236

## 26S/40E-22Pl.--Continued.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Clay, blue-gray, and gray silt with coarse, angular sand and a little fine sand -----			11	1,247	
Silt, tight, green, nonplastic -----			18.5	1,265.5	
Clay, soft, plastic, blue-gray, sticky -----			30.5	1,296	
Sand, fine, micaceous, very angular -----			15	1,311	
Sand, micaceous; biotite in books but quartz grains rounded			16	1,327	
Fresh, biotite-rich dioritic or more basic rock; possibly a cobble bed -----			28	1,355	
Bedrock; very fresh, finely ground dark rock, rich in biotite -----			3	1,358	

26S/40E-23Cl. Test well logged by Ground Water Branch. Screen from 39.1 to 41.1 ft. Altitude 2,213.8 ft.

Sand, dry -----	6	6	Sand and fine gravel --	19	23
Sand and pebbles -----	3	9	Gravel, soft, fine ----	20.5	43.5

26S/40E-24Cl. Test well logged by Ground Water Branch. Screen from 43.5 to 45.5 ft. Altitude 2,212.0 ft.

Sand -----	2	2	Clay; fine sand; and some coarse sand -----	16	26
Gravel, fine -----	3	5	Sand, coarse -----	37	63
Clay -----	5	10			

26S/40E-24R1. Test well drilled by Evans Bros., logged by Ground Water Branch. Perforated 22-72 ft. Altitude 2,260.4 ft.

Sand, subangular to subrounded, poorly sorted, fine to very coarse -----		4	4
Sand, coarse, rounded, with calcareous cement -----		4	8
Sand, coarse; very fine gravel and a little black clay -----		1	9
Sand, with less limy material -----		1	10
Sand, with a little clay -----		1	11
Sand, coarse, uniform, angular to subangular with limy material	4		15
Sand, very coarse, angular, and very fine angular gravel -----	5		20
Gravel, coarse, angular to well-rounded, with very coarse sand	10		30
Gravel, fine to medium -----	4		34
Gravel, fine, and coarse sand -----	6		40
Gravel, fine, permeable -----		4	44
Gravel, very fine, uniform, subrounded -----		4	43
Gravel, very fine, and coarse sand -----	2		50
Cobbles, or tightly packed gravel -----		1	51
Gravel, fine -----		3	54
Gravel, very fine to fine -----		19	73

26S/40E-24Rl.--Continued.

	Thickness (feet)	Depth (feet)
Clay, silty; and limy cemented fine sand -----	7	80
Clay, green, finely sandy -----	10	90
Clay, blue-gray, crumbly to plastic, with much less fine sand and silt -----	10	100
Clay, sticky, plastic -----	10	110
Clay, silty, with shells -----	10	120
Clay -----	6	126
Clay, green, with finely sandy zones; semiplastic to crumbly	2	128
Clay -----	2	130
Clay, green, plastic, with finely sandy or silty zones -----	17	147
Limestone, sandy, and poorly sorted sand -----	2	149

26S/40E-26Bl. Test well logged by Ground Water Branch. Screen from 47.8 to 49.8 ft. Altitude 2,229.4 ft.

Playa clay, white -----	2	2
Sand, coarse, and gravel, 1 to 1½ inches -----	13	15
Gravel -----	13	28
Sand and gravel, moist -----	2	30
Sand and gravel, 1/2-inch, clean -----	27	57
Gravel, coarse -----	5	62
Very soft; rapid drilling -----	11.5	73.5

26S/40E-26Rl. Test well logged by Ground Water Branch. Screen from 61.2 to 63.2 ft. Altitude 2,229.4 ft.

Silt, argillaceous, gray -----	5	5
Sand, fine, green, silty; moist at 10-12 ft -----	9	14
Sand, fine, green, silty to argillaceous -----	4	18
Sand, fine to medium -----	5	23
Clay, silty, pale-green to brown, very sticky -----	20	43
Mud, gravel, and water; easy drilling -----	10	53
Sand and gravel, muddy -----	20.5	73.5

26S/40E-27Ml. Log from Lee (1913). Altitude about 2,280 ft.

Soil and hard cemented sand -----	8	8
Gravel, dry -----	42	50
Sand, cemented -----	40	90
Sand and "shale" -----	34	124
Sand -----	3	127
"Shale" -----	37	134
Sand, water-bearing -----	3	137
"Shale" -----	91	258
Gravel, water-bearing -----	2	260

26S/40E-28D1. Log from Thompson (1929). Altitude 2,290 ft.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Clay, blue, at bottom			Shells found in well		

26S/40E-30E2. Drilled and logged by Evans Bros. Perforated 204-402 ft.  
Altitude 2,342.8 ft.

Sand and cobbles -----	46	46	Sand and boulders -----	43	243
Sand, gravel and boulders -----	79	125	Sand -----	77	320
Sand, fine -----	46	171	Sand and gravel -----	60	380
Gravel and sand -----	29	200	Clay -----	20	400
			Sand, coarse -----	2	402

26S/40E-33A1. Drilled and logged by F. Rottman. Perforated 12 $\frac{1}{4}$ -400 ft.  
Altitude 2,305.5 ft.

Clay and sand -----	5	5	Clay, blue -----	40	230
Gravel, "heavy" -----	73	78	"Shale" and gravel -----	20	250
Clay, blue -----	22	100	Clay, blue -----	50	300
Clay and "shale" -----	35	135	Sand and "shale" -----	40	340
Gravel, "heavy" -----	17	152	Clay, blue -----	40	380
"Shale" -----	38	190	Sand -----	20	400

26S/40E-34N1. Drilled and logged by Barber and Bridge Drilling Corp.  
Perforated 135-142, 146-155, and 176-181 ft. Altitude 2,290.4 ft.

Clay -----	6	6	Gravel, cemented -----	3	156
"Pea" gravel -----	8	14	Clay, yellow -----	18	17 $\frac{1}{4}$
Clay, sandy, yellow ---	38	52	Gravel, cemented -----	5	179
Gravel, cemented -----	16	68	Clay, yellow, sandy ---	3	187
Clay, yellow streaks --	11	79	Gravel, cemented -----	6	193
Sand, cemented -----	18	97	Sand, cemented -----	5	193
Clay, yellow, with streaks of cemented sand (water at 97 ft)	34	131	Clay, yellow -----	15	213
Gravel and clay -----	11	142	Sand and gravel -----	4	217
Clay, yellow -----	2	144	Gravel, cemented -----	9	226
Gravel, 1 $\frac{1}{4}$ -inch, tight	9	153	Clay, yellow -----	3	229
			Gravel -----	3	232

263/40E-3<sup>b</sup>RL. Log from Thompson (1929). Altitude 2,264.0 ft.

	Thickness (feet)	Depth (feet)
Surface soil -----	3	3
Clay, except for a little sand and gravel at 35 ft -----	57	60
Gravel, water-bearing -----	13	73
Clay, blue -----	4	77
Sand, with streaks of hard sandstone -----	53	130
Clay, with pockets of sand -----	50	180

263/40E-35NL. Log from Thompson (1929). Altitude 2,261.5 ft.

No record -----	40	40
Clay, blue -----	2 <sup>b</sup>	64
Gravel reported at 64 ft		

263/40E-36A1. Test well drilled by Evans Bros., logged by Ground Water Branch. Perforated 80-90, 107-127, 187-195, 2<sup>b</sup>0-260 ft. Altitude 2,247.2 ft.

Caliche, hard, cemented -----	2	2
Sand, coarse, angular, with a little loosely cemented fine gravel, traces of clay and caliche -----	11	13
Sand, fine to coarse, subangular to angular, and very fine gravel with some calcareous material -----	2	15
Sand, fine, hard, with calcareous cement -----	2	17
Sand, fine, soft, limy, with coarse angular sand and a little blue clay -----	2	19
Sand, very coarse, subangular to subrounded, and very fine gravel -----	5	24
Sand, medium to coarse -----	4	28
Sand, medium to coarse, with a trace of clay -----	5	33
Sand, medium, uniform, very angular, tight, hard -----	7	40
Sand, fine to medium, angular, with traces of blue clay -----	2	42
Sand, fine to medium, angular, hard -----	10	52
Sand, coarse, subangular, and fine angular sand -----	7	59
Sand, coarse, subangular, with oxidized grains -----	3.5	62.5
Sand, coarse, and fine gravel -----	2.5	65
Sand, coarse, with limy cement -----	2	67
Sand, coarse -----	3	70
Sand, medium, with limy cement -----	10	80
Sand, subangular, coarse, and very fine gravel, very loose -----	2	82
Gravel, cemented, hard -----	1	83
Gravel, very fine, subrounded to rounded, in part with limy cement -----	3	86
Gravel, fine, subangular, and medium to coarse sand -----	1	87
Sand, fine to coarse -----	3	90
Sand, very fine to coarse -----	12	102

26S/40E-36Al.--Continued.

	Thickness (feet)	Depth (feet)
Sand, very fine to coarse, with fine gravel -----	2	104
Gravel, fine to medium, hard, in part with limy cement -----	9	113
Sand, fine to coarse, with hard zones -----	11	12 $\frac{1}{4}$
Sand, coarse; and very fine subrounded gravel -----	5	129
Clay, blue, silty to finely sandy, plastic -----	10	139
Clay, blue-green-black, speckled -----	3	142
Silt, finely sand, gray, with a little gravel -----	8	150
Clay, silty, speckled, plastic, micaceous, with shells -----	10	150
Clay, green, silty -----	3	153
Clay and silty clay with some coarse sand and lime -----	10	173
Sand, fine to coarse, angular to subrounded, silty, and gray silty clay -----	14	187
Gravel, very fine to coarse, subangular, and some coarse sand -----	4	191
Sand, medium to coarse, limy fine sand, and blue clay -----	1	192
Sand, coarse, angular, and very fine gravel with a little silty clay -----	1	193
Sand, fine to coarse, with limy cement, hard -----	3	196
Sand, coarse, subangular to subrounded, and very fine gravel -----	1	197
Sand, fine, angular, with a little lime and silt -----	8	205
Sand, medium, angular, hard -----	1	206
Sand, fine, angular, coarsely silty -----	4	210
Sand, fine to medium, angular, with limy cement, hard -----	11	221
Sand, fine to coarse, angular to subrounded, loose, with about 10 percent spherical to bean-shaped sideritic pellets in some zones -----	26	247
Sand, coarse, uniform, angular -----	13	260
Sand, coarse, and very fine gravel, in part cemented, subangular to subrounded -----	10	270

26S/41E-6Al. Test well logged by Ground Water Branch. Slotted pipe  
from 8.7 to 14.7 ft. Altitude 2,158.2 ft.

Sand, moist, silty, with gradual increase in green silt; moist at 1 ft -----	5	5
Silt, green, water-bearing -----	9	14

26S/41E-7El. Test well logged by Ground Water Branch. Slotted pipe  
from 30.0 to 36.0 ft. Altitude 2,166.5 ft.

Sand, silty, blue, very moist at 3-4 ft -----	5	5
Silt, fine -----	33	36

26S/41E-7G1. Test well logged by Ground Water Branch. Screen from 29.5 to 31.5 ft. Altitude 2,177.0 ft.

	Thickness (feet)	Depth (feet)
Sand, coarse -----	33	33
Sand, darker, coarse -----	4	37

26S/41E-7G2. Test well drilled by Evans Bros., logged by Ground Water Branch. Perforated 9.3-49.3 ft. Altitude 2,181.3 ft.

Sand, fine to medium, angular, loose, with some calcareous material -----	4	4
Sand, medium, uniform, rounded -----	6	10
Sand, poorly sorted, fine to very coarse, subrounded to rounded -----	7	17
Sand, fine to medium, subangular to subrounded, in part cemented -----	3	20
Sand, fine to medium, subangular to subrounded, with cemented fine sand and soft white calcareous material -----	3	23
Sand, fine to medium, subrounded, with numerous stained or oxidized grains -----	18	41
Sand, rounded, uniform, medium, loose, permeable -----	4.5	45.5
Transition zone -----	2	47.5
Bedrock -----	1.8	49.3

27S/40E-4A1. Drilled and logged by J. W. Burkhart. Altitude 2,305 ft.

Sandy soil -----	2	2
Hardpan -----	10	12
Sand; some layers of cemented sand -----	40	52
Sand, very fine -----	26	78
Silt; mica; dry -----	25	103
River gravel and rough lime rocks -----	1	104
Tight gravel and white binder -----	19	123
Good cemented gravel -----	11	134
Layers of water sand and fine gravel with water. Several hard layers of cemented sand -----	16	150
Loose silt -----	9	159
Firm mud -----	9	163
Water gravel (1/2 inch and smaller) -----	6	174
Solid cement gravel -----	12	186
Loose pea gravel -----	3	189
Solid fine cement gravel -----	4	193
Fine sand with white clay -----	80	273

275/40E-4A2. Drilled and logged by J. W. Burkhart. Altitude 2,292 ft.

	Thickness (feet)	Depth (feet)
Red soil -----	6	6
Hard caliche -----	15	21
Loose sand and mud (dark) -----	37	58
Clean sand -----	10	68
Fine dark sand -----	24	92
Cemented sand and silt -----	9	101
Gray clay and fine silt -----	4	105
Cemented sand layers. White rocks. Some gravel -----	21	126
Sand and gravel and layer of hard sand -----	3	129
Gravel and sand -----	5	134
Sandy clay -----	24	158
Small gravel -----	7	165
Sandy clay -----	17	182
Gravel -----	3	185
Sandy clay -----	38	223
Brown clay -----	16	239
Green and gray clay -----	43	282

275/40E-4B1. Drilled and logged by J. W. Burkhart. Perforated 126-230 ft. Altitude 2,302.6 ft.

Topsoil, "heavy" -----	22	22
Sand, fine, dry -----	76	98
Sand, cemented, in layers -----	23	121
Sand and gravel, cemented in layers, with intervening loose sand, water-bearing -----	122	243
Clay, sandy -----	2	245

275/40E-4B2. Drilled and logged by J. W. Burkhart. Perforated 128-278 ft. Altitude 2,301.8 ft.

Topsoil, hard -----	18	18
"Hardpan" or cemented sand in layers -----	24	42
Sand, fine, and silt -----	56	98
Sand, cemented -----	7	105
Gravel, cemented -----	10	115
Sand, cemented, in layers, with intervening layers of soft water sand; "possibly fair quantity of water" -----	65	180
"Semiclay" (silt) with some layers of cemented sand -----	46	226
Sand, approximately 90 percent, "with enough lime to make it run like mud," possibly small layers of water-bearing sand--	4	230
Sand and gravel, water-bearing, with layers of hard cemented sand -----	11	241
Sand, coarse, with mud layers -----	35	276
Clay and sand; no water -----	39	315
Sand and gravel -----	1	316
Clay, sandy -----	59	375

27S/4OE-4L1. Log from owner's records. Perforated 120-252 ft.  
Altitude 2,314.1 ft.

	Thickness (feet)	Depth (feet)
Sand, "sugar" (uniform medium?) -----	100	100
"Cement rock," hard -----	20	120
"Cement rock" and sand -----	30	150
Sand and gravel -----	20	170
"Rock" and gravel -----	30	200
Sand, "heavy" -----	10	210
Sand, white -----	30	240
Sand and gravel -----	12	252

27S/4OE-5A1. Drilled and logged by J. W. Burkhart. Altitude 2,335 ft.

Topsoil -----	2	2
Sand and gravel -----	37	39
Fine silt and sand -----	39	78
Sand and some gravel -----	6	84
Solid gravel and cemented sand -----	3	87
Silty mud, brown -----	35	122
Loose white sand -----	11	133
Soil, sandy, brown -----	9	142
Cemented sand -----	4	146
Sand and gravel, hard and loose layers -----	16	162
Sand, cemented in hard layer -----	3	165
Gravel and sand, loose -----	3	168
Silt, sand, and mud -----	18	186
Sand, white clay -----	24	210

27S/4OE-5B1. Drilled and logged by J. W. Burkhart. Altitude 2,340 ft.

Soil, brown -----	19	19
Sand and gravel -----	15	34
Sand, fine, and silt. Few layers of cemented sand 1 inch thick	54	88
Sand, coarse -----	8	96
Sand, loose, caving -----	18	114
Sand, firm; white clay -----	17	131
Sand and silt -----	21	152
Gravel and sand -----	5	157
Sand and white mud -----	15	172
Gravel, rock, and sand -----	11	183
Sand and coarse gravel with clay -----	13	196
Sand, fine and coarse -----	12	208
Sand and mud -----	7	215

27S/40E-5H1. Drilled and logged by J. W. Burkhart. Altitude 2,340 ft.

	Thickness (feet)	Depth (feet)
Topsoil -----	4	4
Rock, white, 1/4-inch (like crushed) -----	6	10
Caliche, hard -----	4	14
Sand, loose -----	24	38
Sand, fine, dark -----	15	53
Sand and gravel -----	3	61
Gravel -----	4	65
Silt, fine, and sand -----	21	86
Rock, white, crushed -----	2	88
Silt and sand -----	21	109
Gravel, fine, and sand -----	26	135
Sand, soft -----	29	164
Gravel and hard sand -----	2	166
Sand, fine, and mud -----	39	205

27S/40E-10B1. Log from Thompson (1929). Casing perforated 87-190 ft.  
Altitude 2,292.5 ft.

No record -----	80	80
Gravel and sand, water-bearing -----	110	190

27S/40E-11D3. Drilled by Frank Rottman. Log reported by owner.  
Altitude 2,315 ft.

Sand and gravel, "like surface" -----	48	48
Gravel, cemented -----	37	85
Gravel, clean, pea-size and smaller -----	8	93
Gravel, clean -----	12	105
No record -----	60	165

Table 5.--Pumping data

Source of test data: R reported by owner, T Thompson (1929), G pump-test records of Geological Survey, C pump-test records of California Electric Power Co., N records of Navy.

Pumping rate: The pumping rate, reported in gpm (gallons per minute) does not necessarily indicate the maximum capacity of the well, but is the rate at which the well was pumped at the time of the test.

Specific capacity: The specific capacity of the well is the gallons per minute divided by the drawdown in feet. The drawdown is the difference between the static water level and the pumping level.

Horsepower: The number indicates the horsepower rating, where known, of the electric pump used during the test. G indicates an internal combustion motor of unknown horsepower. N flowing well, no pump on well. W well is pumped by a windmill.

USGS number	: Source: of test data	Well depth (feet)	: Date tested	Pumping rate (gpm)	: Drawdown (feet)	Specific capacity: (gpm/ft of dd)	: Horsepower
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T. 23 S., R. 38 E.

23/38-8D1	R	38		166		5
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T. 24 S., R. 38 E.

24/38-28Q1	R	452	2- 2-54	4		W
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T. 24 S., R. 39 E.

24/39-33D1	T	78	1920	20		W
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T. 24 S., R. 40 E.

24/40-19M1 20J1	T G	32 28.3	1920 5-22-53	20 5	9.52	0.5	W G
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USGS number	Source: of test data	Well depth (feet)	Date tested	Pumping rate (gpm)	Drawdown: (feet)	Specific capacity: (gpm/ft of dd)	Horsepower
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T. 25 S., R. 38 E.

25/38-12J1	T	337	1912	450			G
	R	500		1600			
	C		5- 1-58	822			75

T. 25 S., R. 39 E.

25/39- 4R1	G	200	10-21-53	145		1.97	73	7½
8G1	T	92.7	2- 3-20	24				
10A1	T	180	1920	810				
12R1	G	180.5	10-20-53	34		.92	37	3
15C1	T	150		810				
31D1	R	252		850				30
31E1	R	164		125				
35N1	G	152.0	7-29-53	275		13.24	21	G
35N2	T	95.0		180				

T. 25 S., R. 40 E.

25/40- 7M1	T	148	1920	540				
11K1	G	62.3	8-28-58	a3				N
18B1	T	160	1920	540				
20F1	G	182.6	10-21-52	96		4.39	22	G
34N1	G	26.0	6- 9-60	a1				N
34Q1	G	16.2	6- 9-60	a2				N

T. 26 S., R. 38 E.

26/38- 1A1	T	120	1920	20				
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T. 26 S., R. 39 E.

26/39- 1E1	T	250	1920	450	20	22		
4H1	T	77	1920	630				
5F1	N	200	8- 7-52	450	9	50		7½
	N		8- 7-52	650	13	50		
	N		6- 8-52	910	20	46		
	N		8- 9-52	830	18	46		
11E1	G	250	7-29-53	218	6.65	33	25	
11E2	T	220	1-27-20	495				
11Q1	T	191	1920	360				
12G1	T	137.0	1920	90				
19K1	N	803	10- 6-60	3500	74	47	400	
19P1	N	446	8-16-44	2500	7	358(?)	200	
	N		9- 7-45	1980	6.7	295(?)	200	
	G		6- 1-53	1880				200

USGS number	: Source: of test data	Well depth (feet)	Date tested	Pumping rate (gpm)	Drawdown: (feet)	Specific: capacity: (gpm/ft of dd)	Horsepower
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T. 26 S., R. 39 E.--Continued

26/39-19Q1	N	367.5	3-14-44	750	13	58	
	N		9- 7-45	295	2.7	105( )	
	G		3-19-53	1670	18.96	84	G
	G		3-20-53	785	7.91	99	G
20F1	C	333	10-17-58	813	18	45	
23J1	N	800	10-17-60	3560	79	45	400
24K1	N	323.1	6-20-44	1000	7	143( )	
	N		9- 7-45	350	12.4	28	
	G		7-14-52	b255			25
24M1	N		10-26-60	3800	63	63	400
24P1	G	825.0	3- 6-58	2750	33.4	82	250
24Q1	N	361	11- 8-44	800	30	28	
	G		4-24-52	b505	20	25	50
24R1	N	480	4-20-44	900	22	41	
	N		9- 7-45	328	11.5	28	
	G		7-14-52	b340			25
	G		3- 5-53	370	25.94	12.6	25
25D2	R	330	5----50	180	4	45	
	R		9----50	355	10.5	34	
25E1	R	387	5----51	230	5	46	
	R		7----51	320	7	46	
	R		3----52	150	4	38	
28C2	C	364	2-11-58	419	6.3	66	40
30C1	N		9- 7-45	126	2.3	55	
30F1	N	619	9- 7-45	2200	27	81	
	G		7-18-52	1875			200
	G		3-20-53	2000			200

T. 26 S., R. 40 E.

26/40- 1A2	G	197.5	3-17-54	b.1			N
	G		3-17-54	35	27	1.3	
5P1	G	89.3	8- 4-53	247			15
19N1	N	306	9- 7-45	450	31.7	14	30
	G		7-14-52	b320			30
19P1	N	261.0	11- 8-44	700	39	18	
	G		4-24-52	b230			25
	G		7-14-52	b230			25
20N1	N	190.1	9- 7-45	127	13	10	
22P1	G	850	2-23-54	c190	c246	c.8	G
28J1	C		12-30-48	152	32	4.8	
30E2	R	402		1954	1680	50	34
32D1	G	279	5-21-52	200			100
32E1	R	300			1720		
32N1	R	391			1200		60
33A1	R	400		1950	850	53	16
	R			1950	250	8	31
	c				269	8	34

USGS number	: Source: of test data	Well depth (feet)	Date tested	Pumping: rate (gpm)	Drawdown: (feet)	Specific: capacity: (gpm/ft of dd)	Horsepower
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T. 26 S., R. 40 E.--Continued

26/40-33P2	C	130	8- 6-59	385		18	25
	R			180			30
34N1	N	232	9- 7-44	1020	21.9	47	
	G		8-17-53	1200			100
36A1	G	270.0	2- 8-54	75	6.3	12	G

T. 27 S., R. 38 E.

27/38- 5N1	R		12-18-59	a10			
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T. 27 S., R. 40 E.

27/40- 4B1	R	245		390			60
4B2	R	375		650			125
4C2	R	280		135			7 $\frac{1}{2}$
4E1	R	162		150			10
4L1	R	252	7----50	1400	30	47	
	R		4- 2-53	950	22	43	
	G			1959	315		50
8A1	R	440		1500			
10B1	T	190		1350			
	T			1920	1125		
	C	170.8	7-20-55	1350			100
10C1	R	250	11-18-53	1900			125
	C	250	7-20-55	1880			125
10G1	R	184.5		1100			50
11D3	R	165		30			1 $\frac{1}{2}$

T. 28 S., R. 38 E.

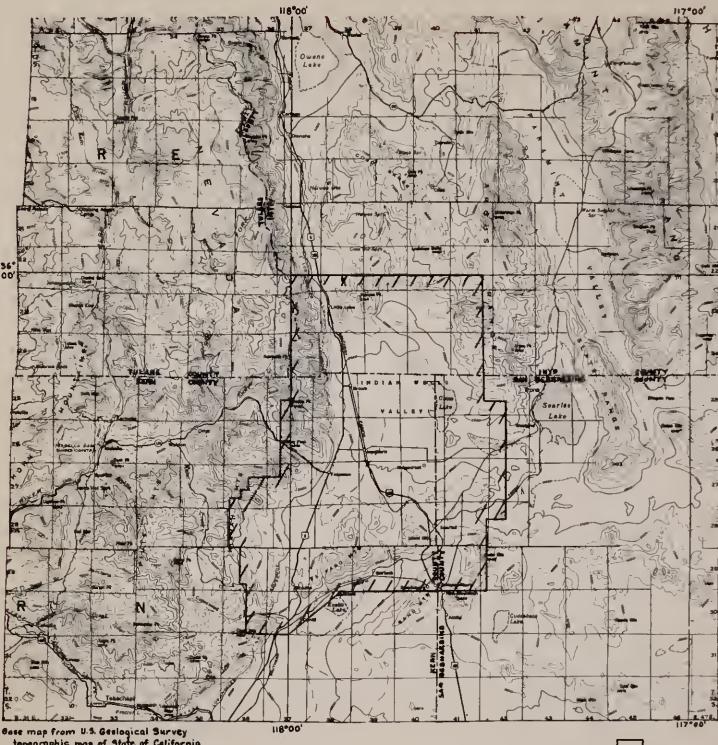
28/38-18F1	R	930	3- 2-53	50	150	.33
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- a. Flowing well.
- b. Wells 26/39-24K1, 24Q1, 24R1, 26/40-19N1, and 19P1 being pumped simultaneously.
- c. Pumping rate, drawdown, and specific capacity not representative due to incompletely developed well.





U. S. GEOLOGICAL SURVEY



0 10 20 Miles  
Scale



MAP OF PART OF SOUTHERN CALIFORNIA  
SHOWING AREA DESCRIBED BY THIS REPORT

STATE OF CALIFORNIA  
THE RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

FEDERAL-STATE COOPERATIVE  
GROUND WATER INVESTIGATIONS  
PREPARED BY U.S. GEOLOGICAL SURVEY



FIGURE 3

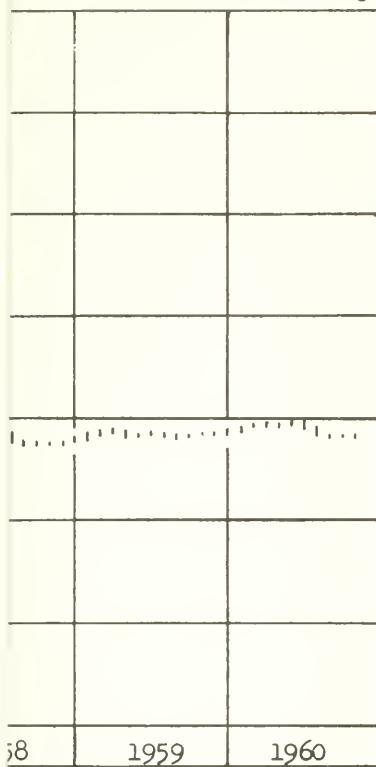


FIGURE 4

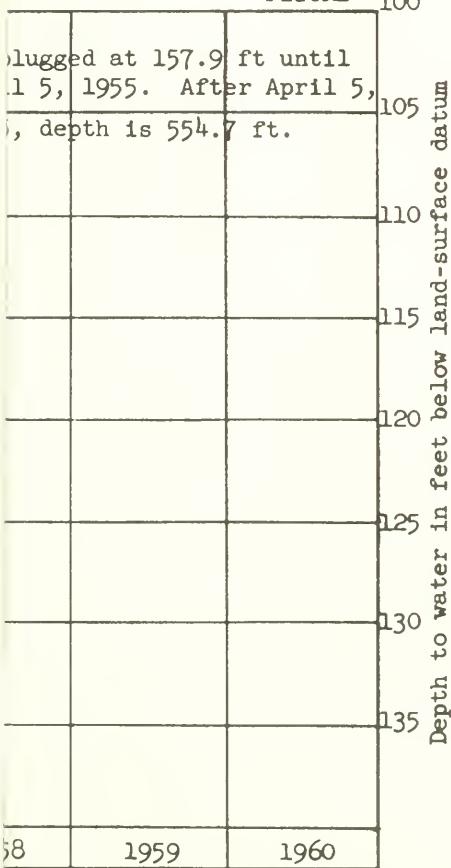




FIGURE 3

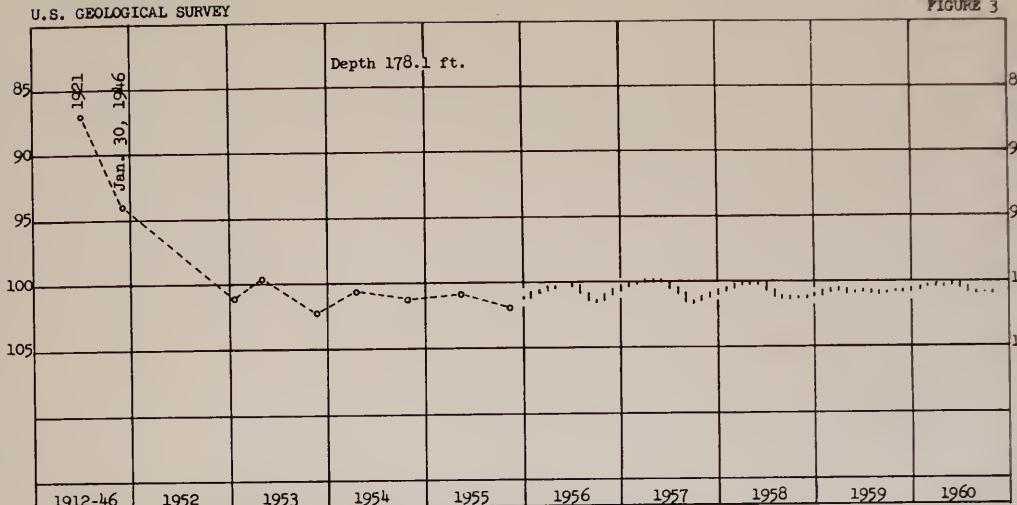
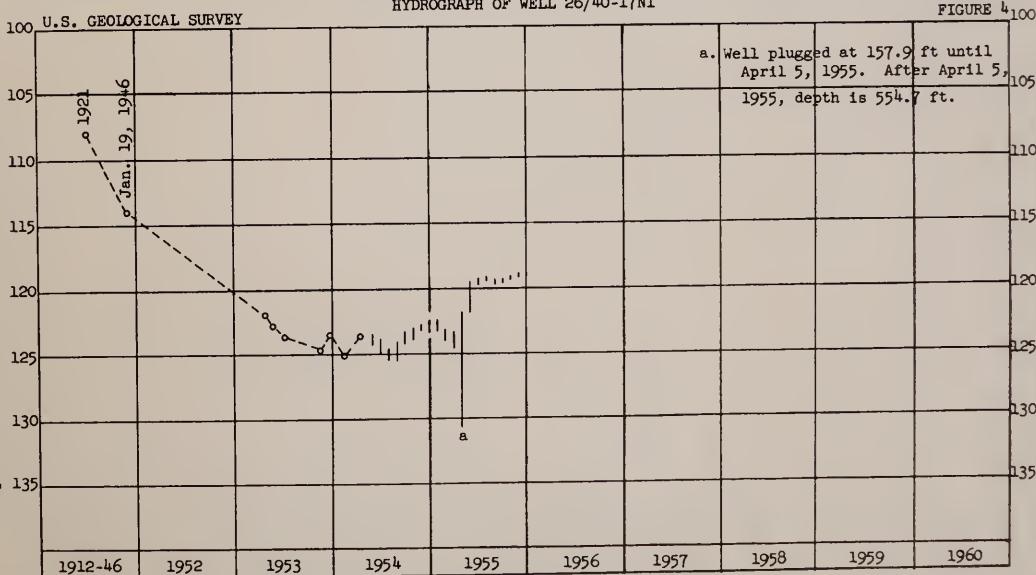


FIGURE 4



STATE OF CALIFORNIA  
THE RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

FEDERAL-STATE COOPERATIVE  
GROUND WATER INVESTIGATIONS  
PREPARED BY U.S. GEOLOGICAL SURVEY



FIGURE 5

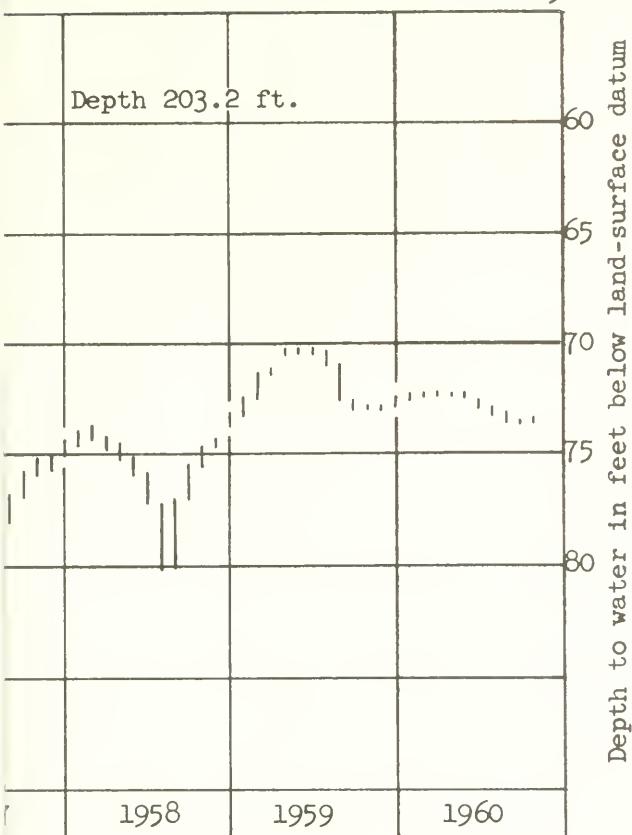
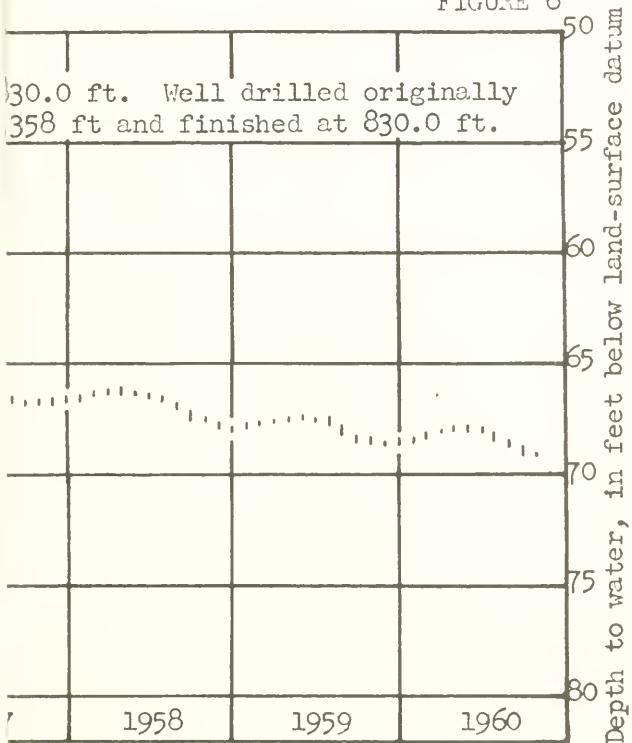


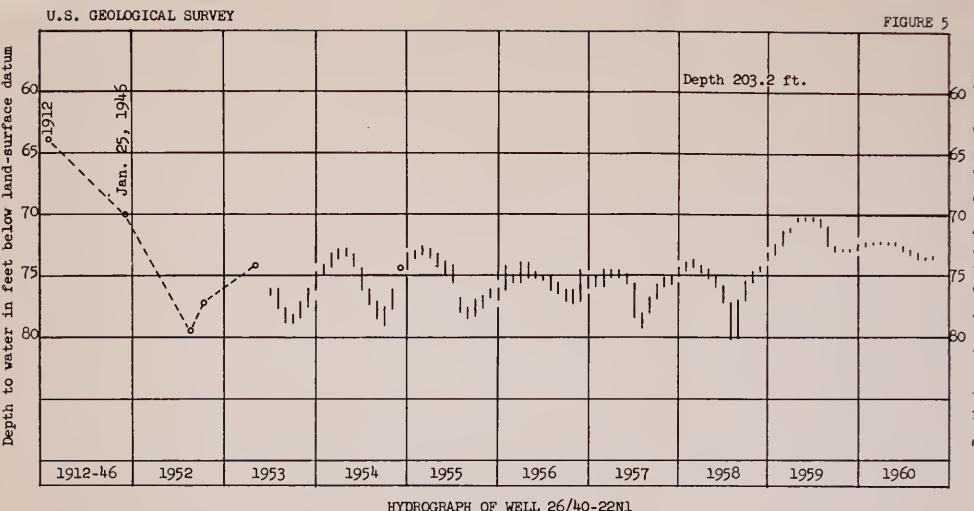
FIGURE 6



VEDNS

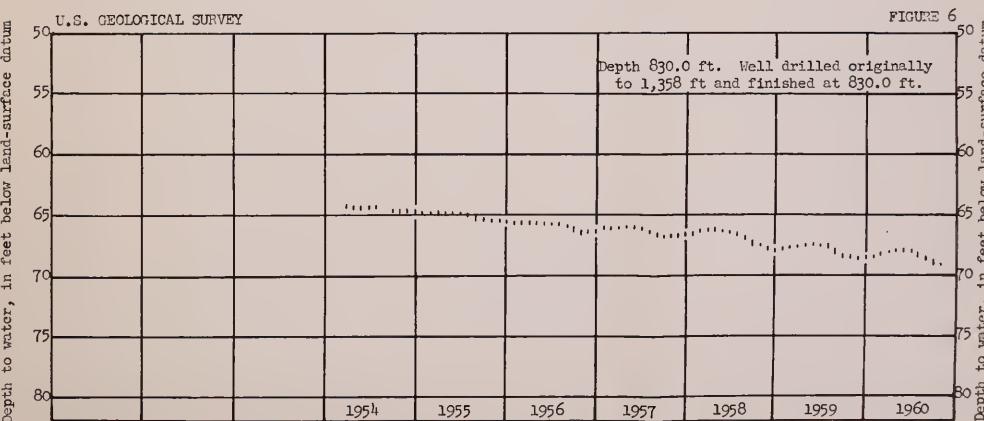


FIGURE 5



HYDROGRAPH OF WELL 26/40-22N1

FIGURE 6



HYDROGRAPH OF WELL 26/40-22P1

STATE OF CALIFORNIA  
THE RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

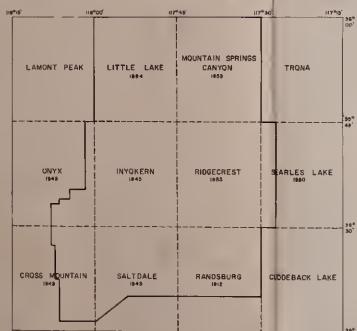
FEDERAL-STATE COOPERATIVE  
GROUND WATER INVESTIGATIONS  
PREPARED BY U.S.GEOLOGICAL SURVEY



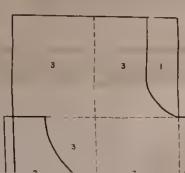




INDEX MAP OF CALIFORNIA

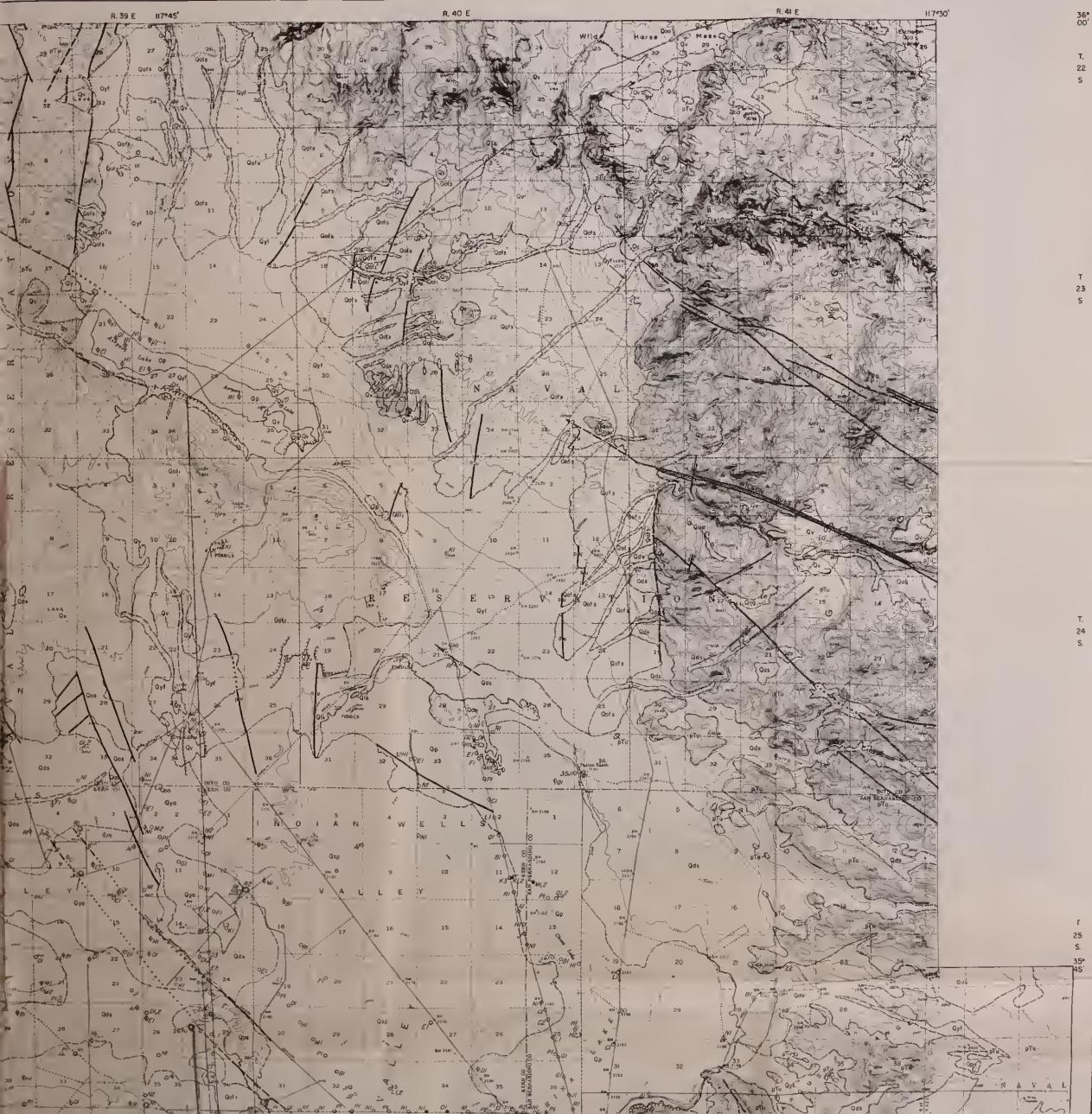


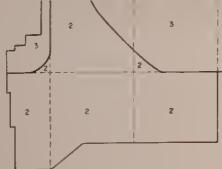
INDEX TO TOPOGRAPHIC QUADRANGLE MAPS



INDEX TO SOURCES OF GEOLOGIC DATA







1. This is a topographic map of the area around the town of Wittenberg, Illinois. It shows contour lines, roads, and various geographical features. The map is divided into a grid system with numbers 1 through 3 along the top and bottom edges.

2. The map was originally published by the U.S. Geological Survey.

3. The map was last revised in 1955.

T  
27  
S

S  
30  
T  
28  
S

S  
31  
T  
29  
S

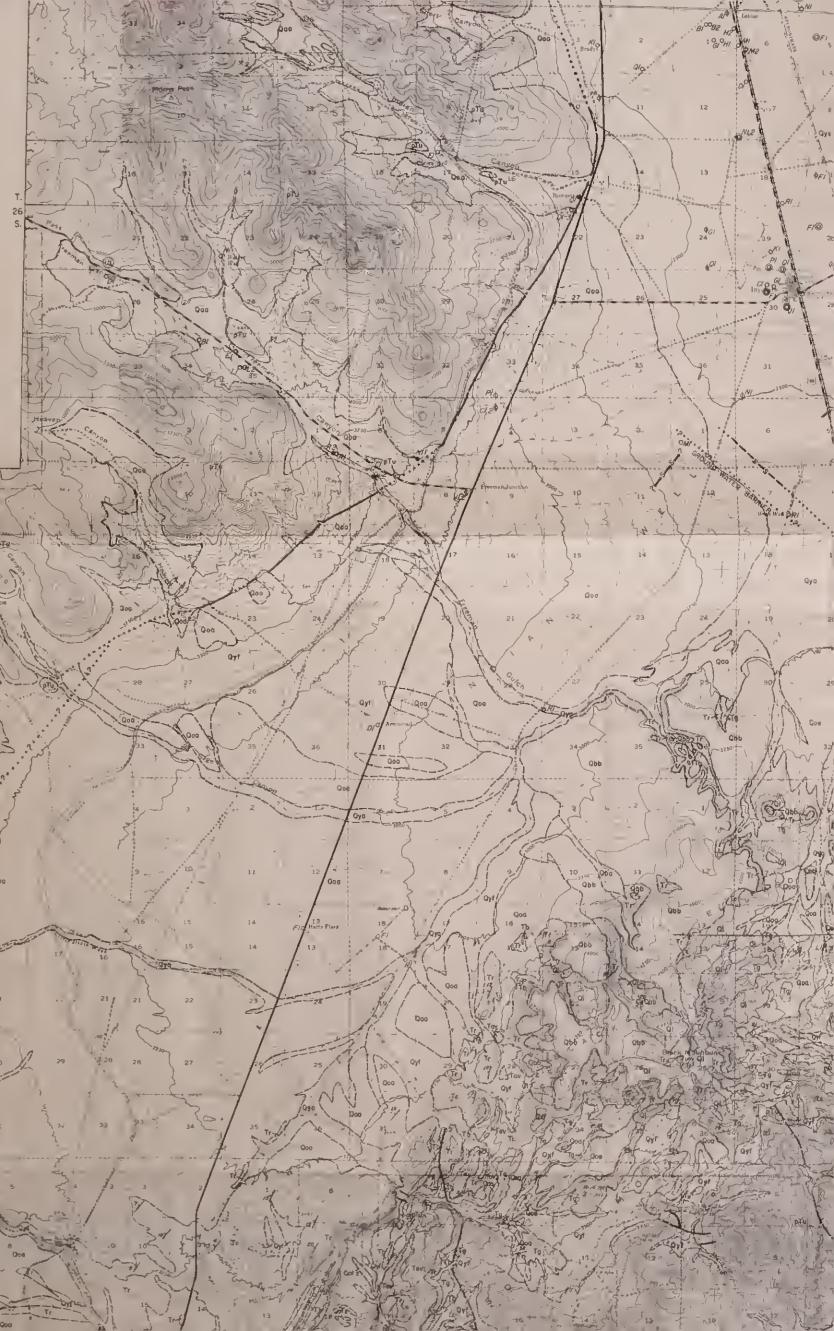
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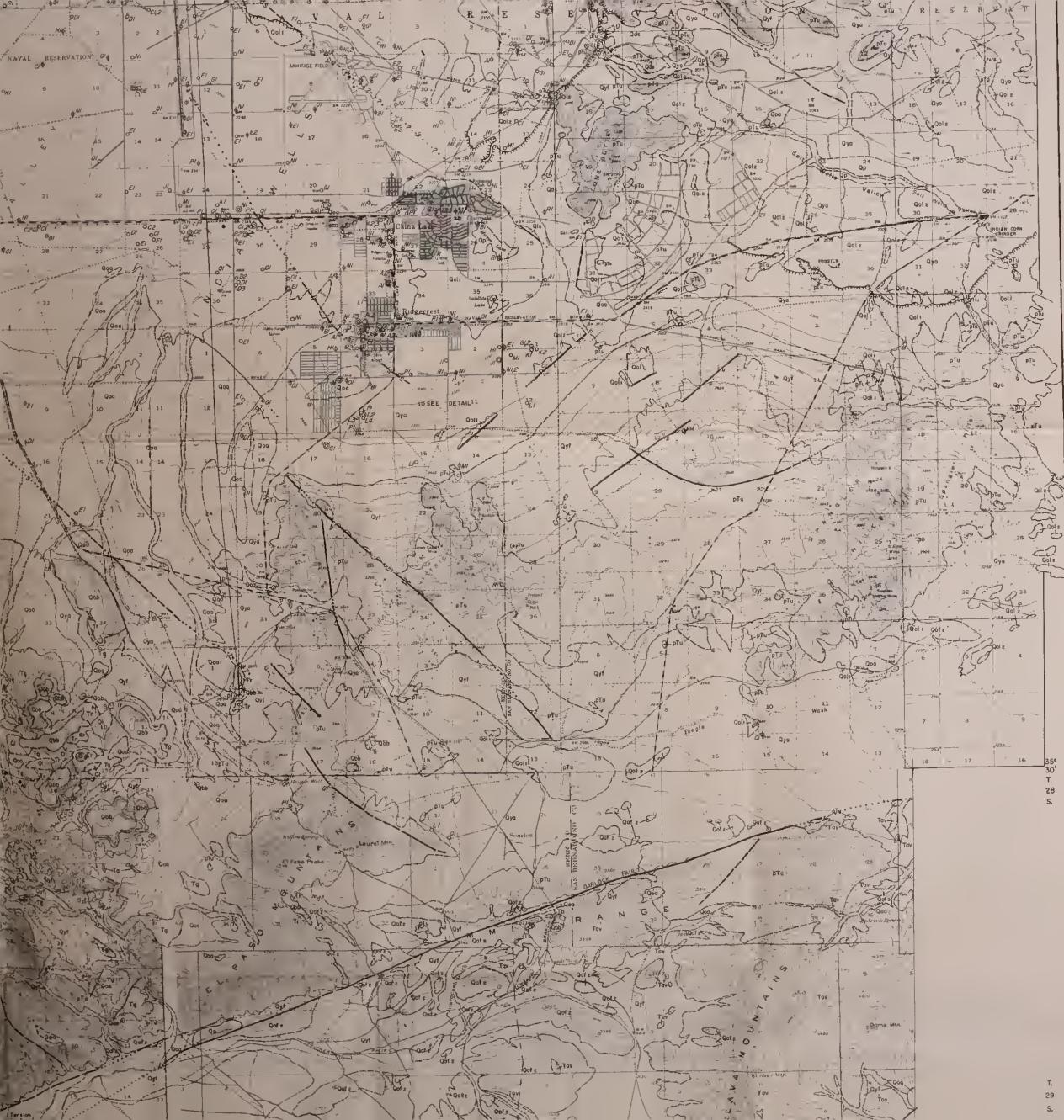
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33  
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36  
T  
34  
S









### EXPLANATION

#### SEDIMENTARY AND VOLCANIC ROCKS

**Og**  
Phry deposits  
Unconsolidated silt and clay beneath small lakesheds; yield small quantities of water to wells, porosity of poor quality

**Gip**  
Sand and intercane phry deposits  
Small phry excreted by sand dunes, actively drifting

**Ods**  
Dune sand  
Unconsolidated sand actively drifting

**Qf**  
Landscape deposits  
Generally above the water table

#### Qv

Unconsolidated volcanic rocks  
Flows of extrusive basalt, vesicular to dense, occurs generally above the regional water table

**Qd 1**  
**Qd 2**  
Old lacustrine deposits

Silt, sand, and fine-water mud, cemented with carbonates in a general, partly close to the regional water table, yields some unconsolidated sand near sea level to wells of poor quality. The unconformity between Qd 1 and Qd 2 corresponds to a difference in elevation of about 1,000 feet between sea level and Wawona (?) in age

**Qd 1**  
Old lacustrine deposits

Silt, sand, clay, and limestone, generally close to the water table. This deposit is at 2,500 feet above mean sea level and is 100 years old.

**Qd 2**  
Old dune sand

Moderately consolidated, held by shallow water table and vegetation, yields virtually no water to wells

**Qd 3**

Block Mountain Beach of Bull's (1925)  
Flow of extrusive olivine basalt, vesicular to dense, occurs above the regional water table

**Qtc**  
Pebble cones

Fairly granular and angular with some gravel, occurs generally above the water table

**Qtc**  
Cone Formation

Deeply dipping beds of talus pumice, composed of pumiceous fine to rock to several inches in diameter, and some silt, sand, and gravel, mostly above the regional water table. Age late Pliocene or early Pleistocene

**Tq**

Basalt

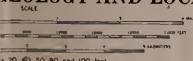
Lava flows and some intrusions onto the Ridges and other formations of Placerville age

**Tq**

Volcanic and sedimentary rocks

Contains andesitic, undifferentiated volcanic rocks, andesite, andesitic tuff, andesitic tuff, at Blue Point, over conglomerate sediments, N.E. of Lodi, and at the top of the Leaf Creek Congenital Basalt, both in the Leaf Creek Formation, at Summit Range and Lava Mountain, andesitic tuff, andesitic tuff, andesitic tuff, and components of Placerville age, yield very little water to wells

### S VALLEY AREA, CALIFORNIA GEOLOGY AND LOCATION OF WELLS



STATE OF CALIFORNIA  
THE RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

### FEDERAL-STATE COOPERATIVE GROUND WATER INVESTIGATIONS PREPARED BY U.S. GEOLOGICAL SURVEY 1963

#### MAP SYMBOLS

Dashed where inferred, dotted where data is doubtful, journal where data is doubtful. S indicates fossil data determined or supported by seismic data. D indicates data determined by drilling. Arrows indicate direction of lateral movement. Arrow and number indicates dip of fault plane

**Fn**  
Fault zone

**Ac**  
Appropriate contact

**Z**  
Strata and dip of beds

**Cut**  
Diamictic, shale, observation, test, or unused well, or seismic shot hole

**Qp**  
Irrigation, industrial, or public-supply well with 6-horsepower or more

**W**  
Flowing well

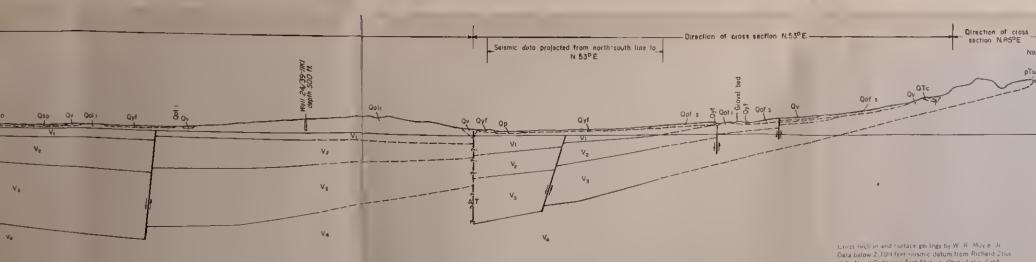
**Wp**  
Dry or destroyed well

**Sp**  
Spring

Letter next to well indicates position in section as shown below

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Location of wells by Fred Kunkel, W. R. Mayle, Jr., W. J. Holgren, D. H. Chappell, and M. A. Prichard; Geologic data by W. R. Mayle, Jr.; Seismic data from published and unpublished mapping by T. W. Dibblee, Jr., Fred Kunkel, and Roland von Huene







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